GUARANTEE 10 YEARS

ASD LAMİNAT A.Ş. ("ASD LAMİNAT") TEN (10) YEAR STANDARD LIMITED WARRANTY OF SPHERE BY ASD

1. Limited Warranty.

For a period of ten (10) years subsequent to the date of issue of the purchase invoice of the Panel(s) to the Buyer to whom ASD Laminat has sold its Panel(s) (the "Buyer"), ASD Laminat warrants to the Buyer that the Panel(s) comply with the color fastness specifications detailed in the Material Properties Datasheet for the Panel(s) proclaimed on the date of issue of the purchase invoice of the Panel(s) to the Buyer at www.asdlaminat.com. Only the limited warranty specified on the date of issue of the purchase invoice of the Panel(s) to the Buyer at www.asdlaminat.com shall be applicable and effective.

2. Limited Warranty Conditions.

This limited warranty shall be null and void and/or shall be deemed revoked upon failure to entirely comply with any of these following conditions:

1. The Buyer has paid the price of the Panel(s) in full to ASD Laminat.
2. At the time of installing the Panel(s), the applicable building codes and standards, laws and regulations shall have been adhered to.
3. Subsequent to the delivery of the Panel(s) to the Buyer, the Panel(s) shall not have been modified or altered except as needed for appropriate installation conforming to all applicable building codes and standards.
4. For purposes of making a claim under this limited warranty regarding a color fastness flaw of the Panel(s), the Buyer shall have informed ASD Laminat of any alleged color fastness flaw by writing, and ASD Laminat shall have been given reasonable opportunity to examine the allegedly flawed Panel(s).
5. The Buyer shall have given ASD Laminat any and all information and documentation in the Buyer's possession or control concerning the Panel(s), along with information regarding installation and maintenance.
6. In order to make a claim under this limited warranty, the Buyer shall have submitted the claim in writing to ASD Laminat together with this limited warranty and with proof that the Panel(s) were purchased by the Buyer directly or indirectly from ASD Laminat.

3. Remedy.

ASD Laminat shall furnish replacement Panel(s) if the Panel(s) that ASD Laminat sold to the Buyer fail to adhere to this limited warranty. Replacement of the Panel(s) shall not extend the warranty duration, and the period of ten (10) years of this limited warranty shall continue to be applicable and effective from the date of issue of the purchase invoice of the Panel(s) to the Buyer. If ASD Laminat furnishes replacement Panel(s), the replacement Panel(s) shall match the color of the Panel(s) initially purchased from ASD Laminat by the Buyer as closely as possible, and ASD Laminat is not obligated to supply an identical color.

4. **Limitations of Damages; Exclusive Remedy.**
The sole and exclusive remedy shall be the replacement of the color fastness flawed Panel(s) henceforth. ASD Laminat shall not be liable for any incidental or consequential damages or breach of any other warranty, express or implied. ASD Laminat is not liable for indirect losses, losses incurred by third parties, or losses to the extent covered by any insurance taken out by the Buyer. Removal and reinstallation of the Panel(s) replaced under this limited warranty shall be at the Buyer's sole cost and expense which shall include the following costs: the costs of dismantling a supporting structure, the costs of repairing a supporting structure, the costs of repairing paintwork or materials, and other akin expenses. In no event shall ASD Laminat's liability under this limited warranty exceed the lesser of the following:
(1) the sum that is equal to the amount of square meters of the color fastness flawed Panel(s) multiplied by the corresponding square meter price of the Panel(s) in question (excluding VAT), noted on the purchase invoice and paid by the Buyer; or
(2) the sum of EUR 200,000 (two hundred thousand euros).
All parties associated with ASD Laminat, including but not limited to its employees, associated enterprises, directors, officers, suppliers, agents, and representatives shall also be affected by this limitation of liability. All rights and claims that the Buyer has under this limited warranty expire ten (10) years from the date on which the purchase invoice of the Panel(s) is issued to the Buyer.

5. **Exclusions.**
This limited warranty does not cover any flaw in any materials or components other than the color fastness flaw of the Panel(s) that were sold by ASD Laminat to the Buyer, or damages attributed to causes different than the process of manufacturing of the Panel(s), including but not limited to inappropriate, faulty or incorrect handling and/or installation, damages attributed to or arising from the combination or assembly of any such other materials or components with the Panel(s), exposure to corrosive elements in the atmosphere, mildew, normal weathering, the use of harmful cleaning products, windstorm, uprising, vandalism, natural disaster, sandstorm, impact, irrational use, misuse, accidental damage, physical abuse, terrorism, civil disobedience, act of war or any "force majeure" whatsoever.

6. **Legal Action.**
Any legal action, suit or proceeding against ASD Laminat arising out of or relating to this limited warranty shall be barred if not commenced within one (1) year of the date the Buyer discovered or should have reasonably discovered that a Panel or Panels fail to conform to this limited warranty.

7. **Governing Law and Competent Court.**
This limited warranty shall be governed by and is exclusively subject to Turkish law. The court of law in Istanbul in Turkey has exclusive jurisdiction to hear disputes arising out of this limited warranty. Treaties and uniform laws about the international trade of physical goods (which include but are not limited to the United Nations Convention on Contracts for the International Sale of Goods) are excluded.

8. **Disclaimer.**
Except as expressly provided herein, the Panel(s) supplied are sold "as is," and

ASD Laminat expressly disclaims any and all other warranties, express, implied or statutory, including but not limited to warranties of merchantability, fitness for a particular purpose, and any warranties arising from course of dealing or trade usage. This limited warranty is the sole and exclusive warranty provided by ASD Laminat, and supersedes all other warranties, including any based upon oral or written representations. Under no circumstances shall ASD Laminat be liable for any claims, expenses or damages caused by or concerning the absence of conformity to any industrial standard(s) or applicable codes. All other claims made by the Buyer are excluded. Any transfer or assignment of rights by the buyer under this limited warranty shall be void.

SERTİFİKA

Sertifika No	**: 03259/ASD09B**
Belgelendirme Tarihi	**: 25.07.2013**
Yeniden Belgelendirme Karar Tarihi	**: 22.07.2022**
Yayın Tarihi	**: 24.07.2024**
Geçerlilik Tarihi	**: 24.07.2025**
Revizyon Tarihi/No	**: 24.07.2024 / 05**

Royalcert, aşağıda bilgileri verilen kuruluşun yönetim sisteminin degerlendirildigini ve ilgili standardın gereklerine uygun olduğunu onaylar.

ISO 9001:2015

ASD LAMİNAT ANONİM ŞİRKETİ

Merkez: İstanbul Dünya Ticaret Merkezi, A1 Blok, No:10/1, Kat:16, Ofis: 463-465-466, Yeşilköy, Bakırköy, İstanbul, TÜRKİYE
Şube: İstiklal OSB 1 Mah. 2 Cad. No: 3, Beyköy, Merkez, Düzce, TÜRKİYE

Kapsam: *Yüksek Basınç Dekoratif Laminat (HPL), Sürekli Basınç Dekoratif Laminat (CPL), Emprenyeli Kağıt, Formaldehit Üretimi, Satışı ve Bu İşlemlere İlişkin Gümrük, Dış Ticaret, Üretim, Lojistik, Yönetim ve İdari Organizasyon Faaliyetleri*

Genel Müdür

TÜRKAK
Kalite Yönetim Sistemi
TS EN ISO/IEC 17021
AB-0014-YS

TÜRKAK BDS NO
YS-ACFA-AA9A

Bu sertifika, belgeli kuruluş gözetim denetimleri şartlarına ve RoyalCert'in prosedürlerine uyduğu sürece geçerlidir.
Orjinal belgede hologram etiket bulunur. Belgelendirme periyodu 3 yıldır.
Sertifikanın durumu www.royalcert.com adresinden ayrıca üzerinde kare kod bulunan sertifikaların geçerliliği de TÜRKAK BDS no. ile TBDS.turkak.org.tr üzerinden doğrulanabilir.

RoyalCert Belgelendirme ve Gözetim A.Ş
Ker Plaza E Blok K:13 34752
Ataşehir, İstanbul
T:+90 216 688 09 10

Form: 50/11.06.2019/Rev No: 8

CERTIFICATE

Certification No	: 03259/ASD09B
Initial Certification Date	: 27.07.2013
Recertification Date	: 22.07.2022
Issue Date	: 24.07.2024
Expiration Date	: 24.07.2025
Revision Date / No	: 24.07.2024 / 05

Royalcert confirms that the management system of the organization, whose information is given below, has been evaluated and complies with the requirements of the relevant standard.

ISO 9001:2015

ASD LAMİNAT ANONİM ŞİRKETİ

Headquarters: İstanbul Dünya Ticaret Merkezi, A1 Blok, No:10/1, Kat:16, Ofis: 463-465-466, Yeşilköy, Bakırköy, İstanbul, TURKEY
Site: İstiklal OSB 1 Mah. 2 Cad. No: 3, Beyköy, Merkez, Düzce, TURKEY

Scope: *High Pressure Decorative Laminate (HPL), Continuous Pressure Decorative Laminate (CPL), Impregnated Paper, Formaldehyde Production, Sales and Customs, Foreign Trade, Production, Logistics, Management and Administrative Organization Activities Related to These Transactions*

General Manager

TÜRKAK
Quality M.S.
TS EN ISO/IEC 17021
AB-0014-YS

TÜRKAK BDS NO
YS-C26F-FA94

This certification was conducted in accordance with the RoyalCert auditing and certification procedures and is subject to regular surveillance audits.
The original certificate contains a security hologram.
Certification period is 3 years Verifiable at: www.royalcert.com
This certification can be verified on TURKAK BDS no. and TBDS.turkak.org.tr

RoyalCert Belgelendirme ve Gözetim A.Ş
Kar Plaza E Blok K:13 34752
Ataşehir, İstanbul
T:+90 216 688 09 10

Form 50/11.06.2019/Rev No:8

CERTIFICATE

Certification No	**: 03259/ASD27B**
Initial Certification Date	**: 06.08.2025**
Recertification Date	**: --**
Issue Date	**: 06.08.2025**
Expiration Date	**: 05.08.2026**
Revision Date / No	**: 06.08.2025 / 00**

Royalcert confirms that the management system of the organization, whose information is given below, has been evaluated and complies with the requirements of the relevant standard.

ISO/IEC 27001:2022

Information Security Management System

ASD LAMİNAT ANONİM ŞİRKETİ

H.Q: Yeşilköy Mah. Atatürk Cad. İstanbul Dünya Ticaret Merkezi Blokları Al No: 10/1 K.16 Ofis no: 463-465- 466 Bakırköy, İstanbul, TURKEY

Site: İstiklal OSB 1 Mah. 2 Cad. No: 3, Beyköy, Merkez, Düzce, TURKEY

Scope: *High Pressure Decorative Laminate (HPL), Continuous Pressure Decorative Laminate (CPL), Impregnated Paper, Formaldehyde Production, Sales, Activities Conducted for Customs and Foreign Trade Transactions in Exports, Information Assets of Logistics, Storage, Accounting, Finance and Information Processing Activities Related to These Transactions and Security Measures Used to Protect These Assets*

SOA Rev. No.: 00

General Manager

TÜRKAK BDS NO
YS-6132-2BF2

Form 50/19.03.2025/Rev No: 1

This certification was conducted in accordance with the RoyalCert auditing and certification procedures and is subject to regular surveillance audits. The original certificate contains a security hologram. Certification period is 3 years. Verifable at, www.royalcert.com This certification can be verified on TURKAK BDS no and https://asist.turkak.org.tr/tr/document-verification

RoyalCert Belgelendirme ve Gözetim A.Ş.
Kar Plaza E Blok K:13 34751
Ataşehir, İstanbul
T:+90 216 688 09 10

SERTİFİKA

Sertifika No	: 03259/ASD14B
Belgelendirme Tarihi	: 07.11.2023
Yeniden Belgelendirme Karar Tarihi	: -
Yayın Tarihi	: 24.07.2024
Geçerlilik Tarihi	: 06.11.2025
Revizyon Tarihi/No	: 24.07.2024/ 01

Royalcert, aşağıda bilgileri verilen kuruluşun yönetim sisteminin değerlendirildiğini ve ilgili standardın gereklerine uygun olduğunu onaylar.

ISO 14001:2015

ASD LAMİNAT ANONİM ŞİRKETİ

Merkez: İstanbul Dünya Ticaret Merkezi, A1 Blok, No:10/1, Kat:16, Ofis: 463-465-466, Yeşilköy, Bakırköy, İstanbul, TÜRKİYE

Şube: İstiklal OSB 1 Mah. 2 Cad. No: 3, Beyköy, Merkez, Düzce, TÜRKİYE

Kapsam: *Yüksek Basınç Dekoratif Laminat (HPL), Sürekli Basınç Dekoratif Laminat (CPL), Emprenyeli Kâğıt, Formaldehit Üretimi, Satışı ve Bu İşlemlere İlişkin Gümrük, Dış Ticaret, Üretim, Lojistik, Yönetim ve İdari Organizasyon Faaliyetleri*

Genel Müdür

TÜRKAK
Çevre Yonetim Sistemi
TS EN ISO IEC 17021
AB-0014-YS

TÜRKAK BDS NO
YS-7191-1A64

Bu sertifika, belgeli kuruluş gözetim denetimleri şartlarına ve RoyalCert'in prosedürlerine uyduğu sürece geçerlidir.
Orjinal belgede hologram etiket bulunur. Belgelendirme periyodu 3 yıldır.
Sertifikanın durumu www.royalcert.com adresinden ayrıca üzerinde kare kod bulunan sertifikaların geçerliliği de TÜRKAK BDS no. ile TBDS.turkak.org.tr üzerinden doğrulanabilir.

RoyalCert Belgelendirme ve Gözetim A.Ş
Kar Plaza E Blok K:13 34752
Ataşehir, İstanbul
T:+90 216 688 09 10

Form SO/11.06.2019/Rev No.: 8

CERTIFICATE

Certification No	**: 03259/ASD14B**
Initial Certification Date	**: 07.11.2023**
Recertification Date	**: --**
Issue Date	**: 24.07.2024**
Expiration Date	**: 06.11.2025**
Revision Date / No	**: 24.07.2024/ 01**

Royalcert confirms that the management system of the organization, whose information is given below, has been evaluated and complies with the requirements of the relevant standard.

ISO 14001:2015

ASD LAMİNAT ANONİM ŞİRKETİ

Headquarters: İstanbul Dünya Ticaret Merkezi, A1 Blok, No:10/1, Kat:16, Ofis: 463-465-466, Yeşilköy, Bakırköy, İstanbul, TURKEY
Site: İstiklal OSB 1 Mah. 2 Cad. No: 3, Beyköy, Merkez, Düzce, TURKEY

Scope: *High Pressure Decorative Laminate (HPL), Continuous Pressure Decorative Laminate (CPL), Impregnated Paper, Formaldehyde Production, Sales and Customs, Foreign Trade, Production, Logistics, Management and Administrative Organization Activities Related to These Transactions*

General Manager

TÜRKAK
Environmental M S
TS EN ISO IEC 17021
AB-0014-YS

TÜRKAK BDS NO
YS-7191-1A64

This certification was conducted in accordance with the RoyalCert auditing and certification procedures and is subject to regular surveillance audits.
The original certificate contains a security hologram.
Certification period is 3 years Verifiable at: www.royalcert.com
This certification can be verified on TÜRKAK BDS no. and TBDS turkak.org.tr

RoyalCert Belgelendirme ve Gözetim A.Ş
Kar Plaza E Blok K:13 34752
Ataşehir, İstanbul
T:+90 216 688 09 10

Form 50/11.06.2015/Rev No: 8

Initial Assessment form	F3-04
Version: 17 ***Date:*** 21.07.2020	***Vérification:*** ***Validation: 1312 001 23***

☐ New manufacturer

☐ New assembly plant

☒ Other (please detail) : Update of ISO:9001 Certificate

Indications concerning the manufacturer		
Name of the manufacturer (certificate holder) : [1]	ASD LAMİNAT ANONİM ŞİRKETİ DÜZCE ŞUBESİ	
Address of the manufacturer (headquarters) : [1]	İSTİKLAL OSB1 MAHALLESİ 2. CADDESİ NO:3/0 BEYKÖY BELDESİ-MERKEZ/DÜZCE/TÜRKİYE	
WMI code for manufacturer of vehicles : [2]	☒ N.A.	
Is the manufacturer also the producer (assembly plant) of the product? [3]	**Yes**	~~**No**~~
Indicate name and address of any additional assembly plant if relevant :[1]	Not applicable	
If applicable, indicate name and address of manufacturer's representative : [4] **Note:** **Appointing a representative is mandatory acc. to:** - **Reg. (EU) 2018/858, article 13, paragraph 4,** - **(Dir. 2007/46/EC, article 5, paragraph 3),** - **Reg. (EU) 167/2013, article 8, paragraph 4,** - **Reg. (EU) 168/2013, article 9, paragraph 4,** - **Reg. (EU) 2016/1628, article 8, paragraph 10.**	Not applicable	
Please indicate the own brand names or logos used :	ASD LAMİNAT A.Ş.	
Is the manufacturer using brand names or logos different from their own? [5]	~~**Yes**~~	**No**
If yes, please indicate the brand names or logos used : [4]	Not applicable	
Remark :	-	

[1] To be supported by a copy of the trade register.
(German, French or English language can be accepted, all other languages must be translated).
[2] To be supported by the Certificate of World Manufacturer Identifier (WMI) Code
[3] If no, contracts have to be added clarifying the commercial and legal relations between the manufacturer and the assembly plant. This contract must clarify the each other responsibilities on the final product.
[4] To be supported by a letter of appointment.
[5] If yes, contracts have to be added clarifying the use of the brand names and/or logos.

Indications concerning the product	
EC Directives/Regulations affected:	Not applicable
UN ECE Regulations affected:	ECE R118
Description of the vehicle, system, separate technical unit or component: [6]	Burning behavior matarials for the vehicles.

[6] Can be supported by promoting material.

Initial Assessment form	F3-04
Version: 17 ***Date:*** 21.07.2020	***Vérification:*** ***Validation: 1312 001 23***

Indications concerning the assembly plant(s) (Pt. 2. of Annex IV of Regulation (EU) 2018/858) (Pt. 1. of Annex X of Directive 2007/46/EC) (Pt. 3. of Annex IV of Commission Delegated Regulation (EU) 1322/2014) (Pt. 1. of Annex IV of Commission Delegated Regulation (EU) 44/2014)		
Existence of a quality management system certified by an accredited body: [7] EN ISO 9001:2015 IATF 16949:2016	Yes	~~No~~
If yes, please indicate the standard:	EN ISO 9001:2015	~~IATF 16949:2016~~
If yes, please indicate the validity date of the certificate:	24 July 2024 Certificate No: 03259/ASD09B	
If no, an initial assessment has to be performed by an SNCH agreed technical service, at the assembly plant, in accordance with the prescriptions of the EN ISO 9001:2015 standard. Please indicate the number and date of the initial assessment report: [8]	Report N° 1312 001 23	
	Date 25.12.2023	

A) Statement of the assembly plant(s) [9]	
1. The undersigned hereby certifies the acceptance of the testing and certification/homologation regulations and the general terms and conditions of SNCH and that he will deliver all supplementary information needed for the evaluation of the assembly plant by the SNCH.	
2. The undersigned hereby certifies the accuracy of the delivered information	
Place and Date:	-
Name, signature and position:	-

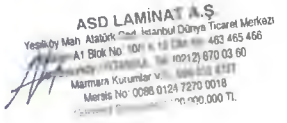
[7] In case of existence of a quality management system, the scope of the certificate must cover the product to be certified and the assembly plant. A copy including the scope of products and assembly plants of the certificate has to be added to this initial assessment form.
[8] The report has to be added to this initial assessment form.
[9] In the case of more than one assembly plant, please copy this page and fill out part A) for each assembly plant.

Initial Assessment form	F3-04
Version: 17 ***Date:*** 21.07.2020	***Vérification:*** ***Validation: 1312 001 23***

B) Statement of the manufacturer

1. The undersigned hereby certifies the acceptance of the testing and certification/homologation regulations and the general terms and conditions of SNCH and that he will deliver all supplementary information needed for the evaluation of the manufacturer by the SNCH.

2. The undersigned hereby certifies the accuracy of the delivered information.

Place and Date:	Düzce/TÜRKİYE 25 December 2023
Name, signature and position:	Atakan Gül / Quality Manager 

C) Statement of the technical service

The undersigned hereby certifies the accuracy of the manufacturer's description and concludes from the verification of the delivered information the compliance of the described manufacturer and assembly plant at least with the requirements of

- **Regulation (EU) 2018/858, article 13, 26, 24, 31, 33, 36, 38, 53, 59, 60.**
- **Directive 2007/46/EC, article 5, 6, 7, 12, 13, 18, 19, 32, 37 and 38.**
- **Regulation (EU) 167/2013, article 8, 9, 20, 21, 28, 29, 33, 34, 47, 51 and 52.**
- **Regulation (EU) 168/2013, article 9, 10, 24, 25, 26, 33, 34, 38, 39, 52, 55 and 56.**
- **Regulation (EU) 2016/1628 article 8, 9, 20, 24, 26, 27, 31, 32, 37, 40 and 43.**

Name and address of the technical service:	LUXCONTROL S.A. 1, Avenue des Terres-Rouges, BP 349 L-4004 Esch/Alzette
Place and Date:	Istanbul/TÜRKİYE 25 December 2023
Name, signature and position:	Tarık Topçuoğlu / COP Manager 

D) Statement of SNCH			
Statement of compliance is:	granted	[illegible]	[illegible]
SNCH ID number	23818-03		
Validity	2025-11-08		
Place:	Bertrange		
Date, Name and Signature (SNCH):	2024-01-22 Luc SCHMITT Directeur QRM		

CATAS S.p.A.
via Antica, 24/3
33048 San Giovanni al Nat. (UD)
+39 0432 747211 - lab@catas.com
www.catas.com

Testing site:
via Antica, 24/3
33048 San Giovanni al Nat. (UD)
tel. +39 0432 747211
lab@catas.com

Testing Certification Research

TEST REPORT

335702 / 1

Revision:	0
Date of sample receipt:	12/09/22
Date of test:	20/09/22
Date of issue:	19/10/22

ASD LAMINAT A.S.
ISTIKLAL OSB 1 MAH. 2.CADDE NO:3
81600 BEYKOY BELDESI MERKEZ-DUZCE
TR - TURKEY

Sample name: ASD Laminate (High-pressure decorative laminate)

Plastics: evaluation of the action of microorganisms. Bacteria EN ISO 846:2019

Test material:	High-pressure decorative laminate
Specimen size:	50x50 mm
Incubation conditions:	29±1°C; 95±5% ur
Time of incubation	28 days
Microbicidal solution.	ethanol/water 70:30 m/m
Test method:	method C
Bacterial strain:	Pseudomonas aeruginosa DSM 1253
Medium :	mineral-salt agar; analytical and microbiology grade reagents
Physical property measured:	change in mass / none, visual assessmet (growth, visible change)

Test results

test specimens	viasual assessment	Change in mass (mg)	Average change in mass % corrected
I 1	no visible growth, no visible change	44	-0,51%
I 2	no visible growth, no visible change	45	
I 3	no visible growth, no visible change	43	
I 4	no visible growth, no visible change	46	
I 5	no visible growth, no visible change	51	
negative control specimens			
S 1	no visible growth, no visible change	57	
S 2	no visible growth, no visible change	52	
S 3	no visible growth, no visible change	60	
S 4	no visible growth, no visible change	61	
S5	no visible growth, no visible change	69	

This test report is part of a PDF file digitally signed by Daniele Bergamasco.

The deputy director
Dr. Daniele Bergamasco

CATAS S.p.A.
via Antica, 24/3
33048 San Giovanni al Nat. (UD)
+39 0432 747211 - lab@catas.com
www.catas.com

Testing site:
via Antica, 24/3
33048 San Giovanni al Nat. (UD)
tel. +39 0432 747211
lab@catas.com

Testing Certification Research

TEST REPORT
335702 / 2

Revision: 0
Date of sample receipt: 12/09/22
Date of test: 20/09/22
Date of issue: 19/10/22

ASD LAMINAT A.S.
ISTIKLAL OSB 1 MAH. 2.CADDE NO:3
81600 BEYKOY BELDESI MERKEZ-DUZCE
TR - TURKEY

Sample name: ASD Laminate (High-pressure decorative laminate)

Plastics - Evaluation of the action of micro-organisms. Method A. EN ISO 846:2019

Test material:	High-pressure decorative laminate
Specimen size:	50x50 mm
Incubation conditions:	29±1°C; 95±5% ur
Time of incubation	28 days
Microbicidal solution.	ethanol/water 70:30 m/m
Test method:	method B - fungistatic effects
Fungi:	Aspergillus niger DSM 1957
	Penicillium funiculosum DSM 1944
	Paecilomyces variotii DSM 1961
	Gliocladium virens DSM 1963
	Chaetomium globosum DSM 1962
Medium :	complete agar medium (method B) ; analytical and microbiology grade reagents

Results

test specimens	surface assessment
I 1	0: no visible growth under the microscope
I 2	0: no visible growth under the microscope
I 3	0: no visible growth under the microscope
I 4	0: no visible growth under the microscope
I 5	0: no visible growth under the microscope

negative control specimens	surface assessment
S 1	0: no visible growth under the microscope
S 2	0: no visible growth under the microscope
S 3	0: no visible growth under the microscope

This test report is part of a PDF file digitally signed by Daniele Bergamasco.

The deputy director
Dr. Daniele Bergamasco

СИСТЕМА СЕРТИФИКАЦИИ ГОСТ Р
ГОССТАНДАРТ РОССИИ

СЕРТИФИКАТ СООТВЕТСТВИЯ

№ РОСС TR.АБ47.Н00845/22

Срок действия с 14.10.2022 по 13.10.2025

1310000

ОРГАН ПО СЕРТИФИКАЦИИ

рег.№ RA.RU.11АБ47, Орган по сертификации продукции Общества с ограниченной ответственностью "Система", место нахождения: 125124, Россия, город Москва, улица Правды, дом 8, корпус 27, помещение I, этаж 3, комната 13А, адрес места осуществления деятельности: 125124, Россия, город Москва, улица Правды, дом 8, корпус 27, помещение I, этаж 3, комната 13а,13б, Тел: +74955653917, E-mail: info@ossystema.ru

ПРОДУКЦИЯ

Декоративный бумажно – слоистый пластик , произведенный по технологиям CPL и HPL толщиной от 0,2 мм до 24 мм, торговая марка ASD LAMINAT.
Серийный выпуск

код ОК 005 (ОКП): 22.21.30

СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ НОРМАТИВНЫХ ДОКУМЕНТОВ

Спецификации изготовителя

код ТН ВЭД: 3921904100

ИЗГОТОВИТЕЛЬ

"ASD LAMINAT A.Ş."
Место нахождения: Турция, Yeşilköy Mah. Atatürk Cad. İstanbul Dünya Ticaret Merkezi Blokları, A1 Blok No: 10/1 Kat:16 Ofis No: 463-465-466, Bakırköy, Istanbul, 34149

СЕРТИФИКАТ ВЫДАН

"ASD LAMINAT A.Ş."
Место нахождения: Турция, Yeşilköy Mah. Atatürk Cad. İstanbul Dünya Ticaret Merkezi Blokları, A1 Blok No: 10/1 Kat:16 Ofis No: 463-465-466, Bakırköy, Istanbul, 34149

НА ОСНОВАНИИ

протокола испытаний № 20221014-004 от 14.10.2022 года Испытательной лаборатории Общества с ограниченной ответственностью «СИТИ-СЕРТ», аттестат аккредитации РОСС RU.32248.04СЕЛ0.1.15.

ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ

Дата изготовления, срок годности, условия хранения указаны в прилагаемой к продукции товаросопроводительной документации и/или на упаковке и/или каждой единице продукции.
Схема сертификации: 3с

"Система" М.П.

Руководитель органа _____ (подпись) С.В. Елисеева (инициалы, фамилия)

Эксперт _____ (подпись) Е.А. Корниенкова (инициалы, фамилия)

Сертификат не применяется при обязательной сертификации

Протокол исследований (испытаний) и измерений (анализа) №	20221014-004	от	14.10.2022	г.

Испытательная лаборатория Общества с ограниченной ответственностью «СИТИ-СЕРТ»

Рег. № РОСС RU.32248.04СЕЛ0.1.15 от 02.02.2022 г., срок действия до 01.02.2025 г.

Адрес юридический и почтовый: 123007, г. Москва, ул. Магистральная 5-я, дом 10А, помещение I, комната 1,2. Адреса мест осуществления деятельности: 141100, Московская обл., г. Щёлково, ул. Талсинская, 60, 143005, Одинцово, Московская область, Транспортный пр-д, 1; 143302, г. Наро-Фоминск, ул. Володарского, 137А; 141607, г. Клин, Волоколамское шоссе, дом 25, стр. 7.Адрес электронной почты sitisert@inbox.ru

Внимание! Перепечатка или размножение настоящего протокола без письменного разрешения испытательной лаборатории не допускается. Настоящий протокол распространяется только на образцы (пробы), подвергшиеся исследованиям (испытаниям) и измерениям (анализу).

УТВЕРЖДАЮ

Руководитель (заместитель руководителя) ИЛ

_____ / А. В. Березина /

МП

Объект испытаний (тип, артикул, модель, марка):	Декоративный бумажно – слоистый пластик , произведенный по технологиям CPL и HPL толщиной от 0,2 мм до 24 мм, торговая марка ASD LAMINAT
Наименование и адрес изготовителя:	"ASD LAMINAT A.Ş." Место нахождения: Турция, Yeşilköy Mah. Atatürk Cad. İstanbul Dünya Ticaret Merkezi Blokları, A1 Blok No: 10/1 Kat:16 Ofis No: 463-465-466, Bakırköy, Istanbul, 34149
Наименование и адрес заявителя испытаний:	"ASD LAMINAT A.Ş." Место нахождения: Турция, Yeşilköy Mah. Atatürk Cad. İstanbul Dünya Ticaret Merkezi Blokları, A1 Blok No: 10/1 Kat:16 Ofis No: 463-465-466, Bakırköy, Istanbul, 34149
Цель испытаний:	Оценка соответствия Спецификации изготовителя
Акт отбора образцов (проб):	Акт отбора заявителя Б/Н от 30.09.2022
Метод (методика) испытаний:	Спецификация изготовителя
Место проведения испытаний:	Испытательные залы ИЛ ООО «СИТИ-СЕРТ»
Дата получения объекта испытаний:	30.09.2022
Сроки испытаний:	30.09.2022-14.10.2022
Условия проведения испытаний:	Температура окружающего воздуха 20-22 °С. Относительная влажность воздуха 66…68%. Атмосферное давление 746…750 мм рт. ст.
Испытательное оборудование (указывается при необходимости):	-

РЕЗУЛЬТАТЫ ИСПЫТАНИЙ

ГИГИЕНИЧЕСКАЯ ХАРАКТЕРИСТИКА ПРОДУКЦИИ		
Вещества, показатели (факторы)	Гигиенический норматив (СанПин, МДУ, ПДК и др.)	Результат
Запах, балл	1	0
Вкус, балл	1	0
Токсичность, %	70-120	91
Формальдегид	0,100 мг/л	0,014
Стирол	0,010 мг/л	0,006
Винилхлорид	0,010 мг/л или 1,000 мг/кг готового изделия	0,009
Фенол	0,050 мг/л	0,0015
Стирол	0,010 мг/л	0,003
Акрилонитрил	0,020 мг/л	0,002
Метилметакрилат	0,250 мг/л	0,052
Гексаметилендиамин	0,010 мг/л	0,005
Е-капролактам	0,500 мг/л	0,071
Ацетальдегид	0,200 мг/л	0,042

ВЫВОД: по проведенным исследованиям (испытаниям) и измерениям (анализу), образцы (пробы) продукции Декоративный бумажно – слоистый пластик , произведенный по технологиям CPL и HPL толщиной от 0,2 мм до 24 мм, торговая марка ASD LAMINAT соответствуют требованиям Спецификации изготовителя

TEST REPORT

TR12323498

24.02.2023

EUROLAB LABORATUVAR A.Ş.

EUROLAB® Inspection & Testing Laboratory

Report No/ Rapor No :	2023240212-R1
Applicant/Deney Sahibi **:**	**ASD LAMINAT A.Ş.**
Contact Person / Yetkili :	Atakan Gül
Contact Telephone / Telefon:	0212 670 03 60
Contact e-mail / E-Posta:	info@asdlaminat.com
Sample Accepted on/Numune Tarihi :	16.02.2023
Report Date / Rapor Tarihi :	24.02.2023
Total number of pages/Rapor Sayfa :	3 Page
Sample ID :	**ASD LAMINAT**

	TEST	METHOD	Specimen	RESULT
-	**Electrostatics Standard test methods for specific applications. Electrical resistance of floor coverings and installed floors**	**EN 61340-4-1: 2004+A1:2015**	**ASD LAMINAT**	**1,75 MΩ**

NOTE: This test result replaces the conformity assessment, can be presented to official institutions, and used in products and brochures.

Seal

Customer Representative
Merve Nur KIRVELİ

Laboratory Manager
Merve ÖZLÜ

Adress: Merkez Mh, Dr Sadık Ahmet Cd, No 38/44, Bağcılar, İstanbul, Turkiye
Contact: www.laboratuvar.com e-mail: info@laboratuvar.com

Scope

This part of IEC 61340 specifies test methods for determining the electrical resistance of all types of floor coverings and installed floors with resistance to ground, point-to-point resistance and vertical resistance of between 10^4 Ω and 10^{13} Ω.

Acceptance Testing

A laboratory evaluation apparatus shall be used for acceptance testing or an apparatus with an open-circuit voltage of

-	10 V ± 0,5 V for resistance below $1,0 \times 10^6$ Ω
-	100 V ± 5 V for resistance between $1,0 \times 10^6$ Ω and $1,0 \times 10^{11}$ Ω
-	500 V ± 25 V for resistance above $1,0 \times 10^{11}$ Ω.

Conditioning

Time	Temperature	Relative Humidity
48 h	23 °C ± 2	12 % ± 3 %

Procedure

Point-to-point resistance	Place the test specimen with its use-surface uppermost on the insulating plate. Place the two measuring electrodes on the test specimen 300 mm ± 10 mm distance centre to centre. For tests on installed floors, the electrodes shall be placed on the floor surface with the same distance between them as for laboratory evaluations. Connect the measuring electrodes to the resistance measuring apparatus. Starting with the voltage set to 10 V, take a reading of the resistance 15 s ± 2 s after applying the test voltage. If the value exceeds 10^6 Ω, select 100 V and repeat the measurement. If the value for this second measurement exceeds 10^{11} Ω, select 500 V and make a final measurement. Record the reading which matches the voltage and resistance range specified, unless either of the following situations occur: a) the measured resistance at 10 V is greater than $1,0 \times 10^6$ Ω and the measured resistance at 100 V is less than $1,0 \times 10^6$ Ω; or b) the measured resistance at 100 V is greater than $1,0 \times 10^{11}$ Ω and the measured resistance at 500 V is less than $1,0 \times 10^{11}$ Ω.
Vertical resistance	Place the counter-electrode on the insulating plate. Place the specimen with its use-surface uppermost on the counter-electrode. Place one measuring electrode on the test specimen with its centre no closer than 100 mm to the test specimen's edges. Connect the measuring and counter-electrode to the resistance measuring apparatus. Starting with the voltage set to 10 V, take a reading of the resistance 15 s ± 2 s after applying the test voltage. If the value exceeds 10^6 Ω, select 100 V and repeat the measurement. If the value for this second measurement exceeds 10^{11} Ω, select 500 V and make a final measurement. Record the reading which matches the voltage and resistance range specified, unless either of the following situations occur: a) the measured resistance at 10 V is greater than $1,0 \times 10^6$ Ω and the measured resistance at 100 V is less than $1,0 \times 10^6$ Ω; or b) the measured resistance at 100 V is greater than $1,0 \times 10^{11}$ Ω and the measured resistance at 500 V is less than $1,0 \times 10^{11}$ Ω.

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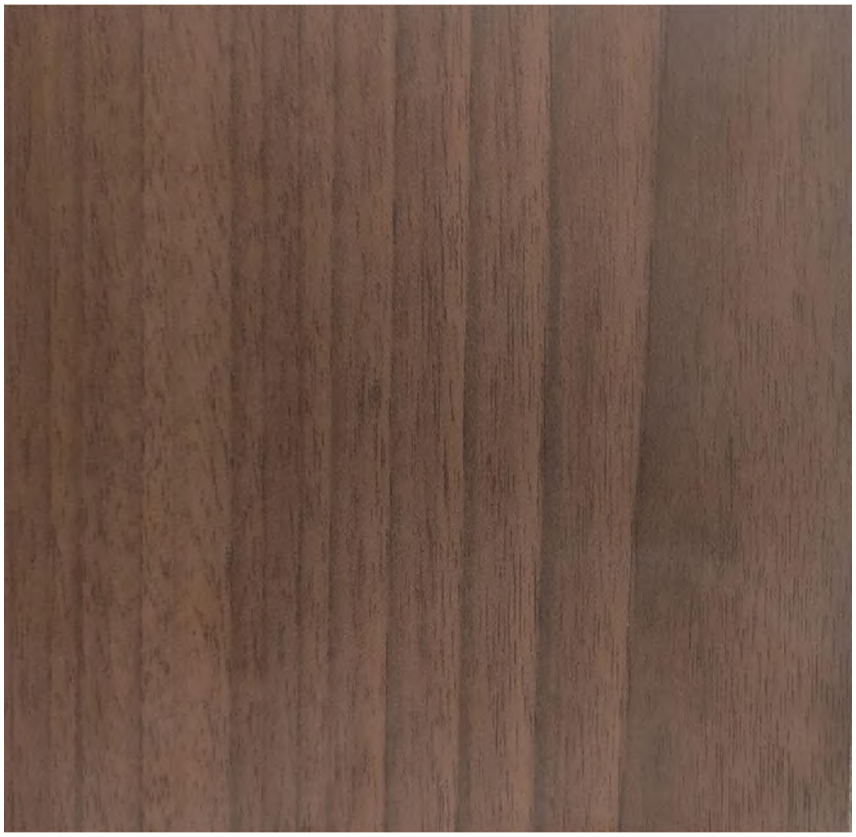
Contact: www.laboratuvar.com e-mail: info@laboratuvar.com

Resistance to ground	Place the test specimen with its use-surface uppermost on the insulating plate. Place one measuring electrode on the test specimen with its centre no closer than 100 mm to any of the test specimen's edges. Connect the measuring electrode and groundable point to the resistance measuring apparatus. Starting with the voltage set to 10 V, take a reading of the resistance 15 s ± 2 s after applying the test voltage. If the value exceeds 10^6 Ω, select 100 V and repeat the measurement. If the value for this second measurement exceeds 10^{11} Ω, select 500 V and make a final measurement. Record the reading which matches the voltage and resistance range specified, unless either of the following situations occur: a) the measured resistance at 10 V is greater than $1,0 \times 10^6$ Ω and the measured resistance at 100 V is less than $1,0 \times 10^6$ Ω; or b) the measured resistance at 100 V is greater than $1,0 \times 10^{11}$ Ω and the measured resistance at 500 V is less than $1,0 \times 10^{11}$ Ω.

Test Result

Sample	Type Of Measurement	Measurement	Geometric Mean
ASD Laminat	Resistance To Ground	1,65 MΩ	1,75 MΩ
		1,74 MΩ	
		1,89 MΩ	

Sample Image



***** End of Report *****

Adress: Merkez Mh, Dr Sadık Ahmet Cd, No 38/44, Bağcılar, İstanbul, Türkiye
Contact: www.laboratuvar.com e-mail: info@laboratuvar.com

CERTIFICATE

Certification No	: 02209/ASD50U
Initial Certification Date	: 11.01.2020
Recertification Date	: 05.01.2023
Issue Date	: 16.01.2025
Expiration Date	: 10.01.2026
Revision Date / No	: 16.01.2025 / 04

This is to certify that the Management System of:

ASD LAMİNAT ANONİM ŞİRKETİ

İstiklal OSB 1 Mahallesi, 2 Cadde, No: 3, Beyköy, Merkez, Düzce, TURKEY

has been assessed and found to be in accordance with the requirements of:

ISO 50001:2018
Energy Management System

Scope: *Production and Sales of High Pressure Decorative Laminate (HPL), Continuous Pressure Decorative Laminate (CPL), Impregnated Paper*

General Manager
Chris Markopolo

THIS CERTIFICATION WAS CONDUCTED IN ACCORDANCE WITH THE ROYALCERT AUDITING AND CERTIFICATION PROCEDURES AND IS SUBJECT TO REGULAR AUDITS.
CERTIFICATION PERIOD IS 3 YEARS. VERIFABLE WITH QR CODE AND AT: WWW.ROYALCERT.COM

Corporate Office - ROYALCERT INTERNATIONAL REGISTRARS LLC
555 NORTH MICHIGAN AVENUE
KENILWORTH, NEW JERSEY 07033, USA
Key Activities - Royalcert Certification and Inspection Services Inc
Kar Plaza Floor 13, 34752 Istanbul
Form 50 /06 06 2024/ Rev: No 1

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Total Quality. Assured.

TEST REPORT

REPORT NUMBER:	**TURT230022633**
APPLICANT NAME	**ASD Laminat A.Ş.**
ADDRESS	Yeşilköy, Atatürk Cd. İDTM A-1 Blok Kat16 Ofis No.465 Bakırköy/İstanbul Tel: 90 212 670 03 60
Attention :	**İsmail Altındal (ismaila@asdlaminat.com)**

SAMPLE DESCRIPTION

Sample 1: One sample of Laminate - 1
Sample 2: One sample of Laminate - 2
Sample 3: One sample of Laminate - 3

DATE IN :	**28 February, 2023 (13:19)**
RESUBMIT DATE :	**01 March, 2023**
DATE OUT :	**14 March, 2023**
REQUEST :	SVHC Screening Test regarding REACH Regulation (EC) No. 1907/2006 for updated SVHC List of 17 January, 2023

Ezgi Aleyna ARI
Senior Customer Care Executive

Zeynep AKIN
Chemical Laboratory Manager

Intertek Test Hizmetleri A.S.
Merkez Mahallesi Sanayi Cad. No.23 Altindag Plaza Yenibosna 34197 - ISTANBUL / TURKEY
Phone : +90.212. 496 46 46 Fax: +90.212. 452 80 55
e-mail :intertekcg.turkiye@intertek.com
www.intertek-turkey.com

REPORT : TURT230022633

14 March, 2023

Sample 1

Sample 2

Sample 3

Tested Components:

CS=Combined Sample

No	Sample	Composite Part of Numbers
1	CS 1	1, 2, 3

REPORT : TURT230022633

14 March, 2023

TEST RESULTS

1-Organic Components

1. List (15 SVHC Released in Oct, 2008)

	Chemical Substance	CAS-No.	RESULTS (% w/w)
No.			CS 1
1	Cobalt Dichloride	7646-79-9	ND
2	Diarsenic Pentaoxide	1303-28-2	ND
3	Diarsenic Trioxide	1327-53-3	ND
4	Lead Hydrogen Arsenate	7784-40-9	ND
5	Triethyl Arsenate	15606-95-8	ND
6	Sodium Dichromate	7789-12-0, 10588-01-9	ND
7	Bis (Tributyltin) Oxide (TBTO)	56-35-9	ND
8	Anthracene	120-12-7	ND
9	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	ND
10	Hexabromocyclododecane (HBCDD) and All Major Diastereoisomers Identified (α-HBCDD, β-HBCDD, γ-HBCDD)	25637-99-4 and 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	ND
11	5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)	81-15-2	ND
12	Bis (2-Ethylhexyl) Phthalate (DEHP)	117-81-7	ND
13	Dibutyl Phthalate (DBP)	84-74-2	ND
14	Benzyl Butyl Phthalate (BBP)	85-68-7	ND
15	Short Chain Chlorinated Paraffins (C10-13)	85535-84-8	ND

2. List (13 SVHC Release in Jan, 2010 and Mar, 2010)

No.	Chemical Substance	CAS-No.	RESULTS (% w/w)
			CS 1
16	Lead Chromate	7758-97-6	ND
17	Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104)	12656-85-8	ND
18	Lead Sulfochromate Yellow (C.I. Pigment Yellow 34)	1344-37-2	ND
19	Tris (2-Chloroethyl) Phosphate	115-96-8	ND
20	2,4-Dinitrotoluene	121-14-2	ND
21	Diisobutyl Phthalate (DIBP)	84-69-5	ND
22	Coal Tar Pitch, High Temperature	65996-93-2	ND
23	Anthracene Oil	90640-80-5	ND
24	Anthracene Oil, Anthracene Paste, Distn. Lights	91995-17-4	ND
25	Anthracene Oil, Anthracene Paste, Anthracene Fraction	91995-15-2	ND
26	Anthracene Oil, Anthracene-low	90640-82-7	ND
27	Anthracene Oil, Anthracene Paste	90640-81-6	ND
28	Acrylamide	79-06-1	ND

3. List (8 SVHC Release in Jun,2010)

No.	Chemical Substance	CAS-No.	RESULTS (% w/w)
			CS 1
29	Boric Acid	10043-35-3, 11113-50-1	ND
30	Disodium Tetraborate, Anhydrous	1330-43-4, 12179-04-3, 1303-96-4	ND
31	Tetraboron Disodium Heptaoxide, Hydrate	12267-73-1	ND
32	Sodium Chromate	7775-11-3	ND
33	Potassium Chromate	7789-00-6	ND
34	Ammonium Dichromate	7789-09-5	ND
35	Potassium Dichromate	7778-50-9	ND
36	Trichloroethylene	79-01-6	ND

4. List (8 SVHC Release in Dec,2010)

No.	Chemical Substance	CAS-No.	RESULTS (% w/w)
			CS 1
37	2-Methoxyethanol	109-86-4	ND
38	2-Ethoxyethanol	110-80-5	ND
39	Cobalt Sulphate	10124-43-3	ND
40	Cobalt Dinitrate	10141-05-6	ND
41	Cobalt Carbonate	513-79-1	ND
42	Cobalt Diacetate	71-48-7	ND
43	Chromium Trioxide	1333-82-0	ND
44	Chromic Acid Dichromic Acid Oligomers of Chromic Acid and Dichromic Acid	7738-94-5 13530-68-2 --	ND

5. List (7 SVHC Release in Jun, 2011)

No.	Chemical Substance	CAS-No.	RESULTS (% w/w)
			CS 1
45	Strontium Chromate	7789-06-2	ND
46	2-ethoxyethyl acetate (2-EEA)	111-15-9	ND
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	ND
48	Hydrazine	7803-57-8 302-01-2	ND
49	1-methyl-2-pyrrolidone	872-50-4	ND
50	1,2,3-trichloropropane	96-18-4	ND
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	ND

6. List (20 SVHC Release in Dec, 2011)

No.	Chemical Substance	CAS-No.	RESULTS (% w/w)
			CS 1
52	Lead dipicrate	6477-64-1	ND
53	Lead styphnate	15245-44-0	ND
54	Lead azide; Lead diazide	13424-46-9	ND
55	Phenolphthalein	77-09-8	ND
56	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	ND
57	N,N-dimethylacetamide (DMAC)	127-19-5	ND
58	Trilead diarsenate	3687-31-8	ND
59	Calcium arsenate	7778-44-1	ND
60	Arsenic acid	7778-39-4	ND
61	Bis(2-methoxyethyl) ether	111-96-6	ND
62	1,2-Dichloroethane	107-06-2	ND
63	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	ND
64	2-Methoxyaniline; o-Anisidine	90-04-0	ND
65	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	ND
66	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	ND
67	Pentazinc chromate octahydroxide	49663-84-5	ND
68	Potassium hydroxyoctaoxodizincate di-chromate	11103-86-9	ND
69	Dichromium tris(chromate)	24613-89-6	ND
70	Aluminosilicate Refractory Ceramic Fibres	(Index No. 650-017-00-8)	ND
71	Zirconia Aluminosilicate Refractory Ceramic Fibres	(Index No. 650-017-00-8)	ND

7. List (13 SVHC Release in Jun, 2012)

No.	Chemical Substance	CAS-No.	RESULTS (% w/w)
			CS 1
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	ND
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	ND
74	Diboron trioxide	1303-86-2	ND
75	Formamide	75-12-7	ND
76	Lead(II) bis(methanesulfonate)	17570-76-2	ND
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	ND
78	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	ND
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	ND
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	ND
81	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	548-62-9	ND
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	2580-56-5	ND
83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	6786-83-0	ND
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)]	561-41-1	ND

8. List (54 SVHC Release in Dec, 2012)

	Chemical Substance	CAS-No.	RESULTS (% w/w)
No.			CS 1
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	ND
86	Pentacosafluorotridecanoic acid	72629-94-8	ND
87	Tricosafluorododecanoic acid	307-55-1	ND
88	Henicosafluoroundecanoic acid	2058-94-8	ND
89	Heptacosafluorotetradecanoic acid	376-06-7	ND
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	ND
91	Cyclohexane-1,2-dicarboxylic anhydride; - cis-cyclohexane-1,2-dicarboxylic anhydride - Cyclohexane-1,2-dicarboxylic anhydride - trans-cyclohexane-1,2-dicarboxylic anhydride	13149-00-3 85-42-7 14166-21-3	ND
92	Hexahydromethylphthalic anhydride; - Hexahydro-4-methylphthalic anhydride - Hexahydro-3-methylphthalic anhydride - Hexahydro-1-methylphthalic anhydride - Hexahydromethylphthalic anhydride	- 19438-60-9 57110-29-9 48122-14-1 25550-51-0	ND
94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	-	ND
95	Methoxyacetic acid	625-45-6	ND
96	N,N-dimethylformamide	68-12-2	ND
97	Dibutyltin dichloride (DBTC)	683-18-1	ND
98	Lead monoxide (Lead oxide)	1317-36-8	ND
99	Orange lead (Lead tetroxide)	1314-41-6	ND
100	Lead bis(tetrafluoroborate)	13814-96-5	ND
101	Trilead bis(carbonate)dihydroxide	1319-46-6	ND
102	Lead titanium trioxide	12060-00-3	ND
103	Lead titanium zirconium oxide	12626-81-2	ND
104	Silicic acid, lead salt	11120-22-2	ND

No.	Chemical Substance	CAS-No.	RESULTS (% w/w)
			CS 1
105	Silicic acid (H2Si2O5), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	68784-75-8	ND
106	1-bromopropane (n-propyl bromide)	106-94-5	ND
107	Methyloxirane (Propylene oxide)	75-56-9	ND
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	ND
109	Diisopentylphthalate (DIPP)	605-50-5	ND
110	N-pentyl-isopentylphthalate	776297-69-9	ND
111	1,2-diethoxyethane	629-14-1	ND
112	Acetic acid, lead salt, basic	51404-69-4	ND
113	Lead oxide sulfate	12036-76-9	ND
114	[Phthalato(2-)]dioxotrilead	69011-06-9	ND
115	Dioxobis(stearato)trilead	12578-12-0	ND
116	Fatty acids, C16-18, lead salts	91031-62-8	ND
117	Lead cynamidate	20837-86-9	ND
118	Lead dinitrate	10099-74-8	ND
119	Pentalead tetraoxide sulphate	12065-90-6	ND
120	Pyrochlore, antimony lead yellow	8012-00-8	ND
121	Sulfurous acid, lead salt, dibasic	62229-08-7	ND
122	Tetraethyllead	78-00-2	ND
123	Tetralead trioxide sulphate	12202-17-4	ND
124	Trilead dioxide phosphonate	12141-20-7	ND
125	Furan	110-00-9	ND
126	Diethyl sulphate	64-67-5	ND
127	Dimethyl sulphate	77-78-1	ND
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	ND
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	ND
130	4,4'-methylenedi-o-toluidine	838-88-0	ND
131	4,4'-oxydianiline and its salts	101-80-4	ND
132	4-aminoazobenzene	60-09-3	ND
133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	ND

No.	Chemical Substance	CAS-No.	RESULTS (% w/w)
			CS 1
134	6-methoxy-m-toluidine (p-cresidine)	120-71-8	ND
135	Biphenyl-4-ylamine	92-67-1	ND
136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3	ND
137	o-toluidine	95-53-4	ND
138	N-methylacetamide	79-16-3	ND

9. List (6 SVHC Release in Jun, 2013)

No.	Chemical Substance	CAS-No.	RESULTS (% w/w)
			CS 1
139	Cadmium	7440-43-9	ND
140	Cadmium oxide	1306-19-0	ND
141	Dipentyl phthalate (DPP)	131-18-0	ND
142	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	ND
143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	ND
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	ND

10. List (7 SVHC Release in Dec, 2013)

	Chemical Substance	CAS-No.	RESULTS (% w/w)
No.			CS 1
145	Cadmium sulphide	1306-23-6	ND
146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	ND
147	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	ND
148	Dihexyl phthalate	84-75-3	ND
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	ND
150	Lead di(acetate)	301-04-2	ND
151	Trixylyl phosphate	25155-23-1	ND

11. List (4 SVHC Release in Jun, 2014)

	Chemical Substance	CAS-No.	RESULTS (% w/w)
No.			CS 1
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND
153	Cadmium chloride	10108-64-2	ND
154	Sodium perborate; Perboric acid, sodium salt	--	ND
155	Sodium peroxometaborate	7632-04-4	ND

12. List (6 SVHC Release in December, 2014)

	Chemical Substance	CAS-No.	RESULTS (% w/w)
No.			CS 1
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	ND
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	ND
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	ND
159	Cadmium fluoride	7790-79-6	ND
160	Cadmium sulphate	10124-36-4; 31119-53-6	ND
161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4- dioctyl-7-oxo-8-oxa-3,5-dithia-4- stannatetradecanoate and 2-ethylhexyl 10- ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	ND

13. List (2 SVHC Release in June, 2015)

No.	Chemical Substance	CAS-No.	RESULTS (% w/w)
			CS 1
162	1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5; 68648-93-1	ND
163	5-Sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-Sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	ND

14. List (5 SVHC Release in December, 2015)

No.	Chemical Substance	CAS-No.	RESULTS (% w/w)
			CS 1
164	1,3-Propanesultone	1120-71-4	ND
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)	3864-99-1	ND
166	2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	ND
167	Nitrobenzene	98-95-3	ND
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts; - Ammonium salts of perfluorononan-1-oic-acid - Perfluorononan-1-oic-acid - Sodium salts of perfluorononan-1-oic-acid	- 4149-60-4 375-95-1 21049-39-8	ND

15. List (1 SVHC Release in June, 2016)

No.	Chemical Substance	CAS-No.	RESULTS (% w/w)
			CS 1
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	ND

16. List (4 SVHC Release in January, 2017)

No.	Chemical Substance	CAS-No.	RESULTS (% w/w)
			CS 1
170	4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7	ND
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	ND
172	p-(1,1-dimethylpropyl)phenol	80-46-6	ND
173	4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	ND

17. List (1 SVHC Release in July, 2017)

No.	Chemical Substance	CAS-No.	RESULTS (% w/w)
			CS 1
174	Perfluorohexane-1-sulfonic acid and its salts (PFHxS)	-	ND

18. List (7 SVHC Release in January, 2018)

No.	Chemical Substance	CAS-No.	RESULTS (% w/w)
			CS 1
175	Benz[a]anthracene	56-55-3, 1718-53-2	ND
176	Cadmium carbonate	513-78-0	ND
177	Cadmium hydroxide	21041-95-2	ND
178	Cadmium nitrate	10022-68-1, 10325-94-7	ND
179	Chrysene	218-01-9, 1719-03-5	ND
180	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™)	-	ND
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	ND

19. List (10 SVHC Release in June, 2018)

	Chemical Substance	CAS-No.	RESULTS (% w/w)
No.			CS 1
182	Terphenyl, hydrogenated	61788-32-7	ND
183	Octamethylcyclotetrasiloxane	556-67-2	ND
184	Lead	7439-92-1	ND
185	Ethylenediamine	107-15-3	ND
186	Dodecamethylcyclohexasiloxane	540-97-6	ND
187	Disodium octaborate	12008-41-2	ND
188	Dicyclohexyl phthalate	84-61-7	ND
189	Decamethylcyclopentasiloxane	541-02-6	ND
190	Benzo[ghi]perylene	191-24-2	ND
191	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	552-30-7	ND

20. List (6 SVHC Release in January, 2019)

	Chemical Substance	CAS-No.	RESULTS (% w/w)
No.			CS 1
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	ND
193	Benzo[k]fluoranthene	207-08-9	ND
194	Fluoranthene	206-44-0 93951-69-0	ND
195	Phenanthrene	85-01-8	ND
196	Pyrene	129-00-0 1718-52-1	ND
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	ND

21. List (4 SVHC Release in July, 2019)

	Chemical Substance	CAS-No.	RESULTS (% w/w)
No.			CS 1
198	2-methoxyethyl acetate	110-49-6	ND
199	Tris (4-nonylphenyl, branched and linear) phosphate (TNPP) with ≥0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	ND
200	2,3,3,3-tetrafluoro-2- (heptafluoropropoxy) proponic acidi its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	ND
201	4-tert-butylphenol	98-54-4	ND

22. List (4 SVHC Release in January, 2020)

	Chemical Substance	CAS-No.	RESULTS (% w/w)
No.			CS 1
202	Perfluorobutane sulfonic acid (PFBS) and its salts	-	ND
203	Diisohexyl phthalate	71850-09-4	ND
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	ND
205	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	ND

23. List (4 SVHC Release in June, 2020)

	Chemical Substance	CAS-No.	RESULTS (% w/w)
No.			CS 1
206	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	ND
207	butyl 4-hydroxybenzoate	94-26-8	ND
208	2-methylimidazole	693-98-1	ND
209	1-vinylimidazole	1072-63-5	ND

24. List (2 SVHC Release in January, 2021)

	Chemical Substance	CAS-No.	RESULTS (% w/w)
No.			CS 1
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	ND
211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-	ND

25. List (8 SVHC Release in July, 2021)

No.	Chemical Substance	CAS-No.	RESULTS (% w/w)
			CS 1
212	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	ND
213	Orthoboric acid, sodium salt	13840-56-7	ND
214	2,2-bis(bromomethyl)propane1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0, 36483-57-5 1522-92-5, 96-13-9	ND
215	Glutaral	111-30-8	ND
216	Medium-chain chlorinated paraffins (MCCP) (UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17)	-	ND
217	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	ND
218	1,4-dioxane	123-91-1	ND
219	4,4'-(1-methylpropylidene)bisphenol	77-40-7	ND

26. List (4 SVHC Release in January, 2022)

No.	Chemical Substance	CAS-No.	RESULTS (% w/w)
			CS 1
220	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	ND
221	tris(2-methoxyethoxy)vinylsilane	1067-53-4	ND
222	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	ND
223	S-(tricyclo(5.2.1.02,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	ND

27. List (1 SVHC Release in June, 2022)

No.	Chemical Substance	CAS-No.	RESULTS (% w/w)
			CS 1
224	N-(hydroxymethyl)acrylamide	924-42-5	ND

28. List (9 SVHC Release in January, 2023)

No.	Chemical Substance	CAS-No.	RESULTS (% w/w)
			CS 1
225	Reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	ND
226	Perfluoroheptanoic acid and its salts • Ammonium perfluoroheptanoate • Potassium perfluoroheptanoate • Perfluoroheptanoic acid Sodium perfluoroheptanoate	6130-43-4 21049-36-5 375-85-9 20109-59-5	ND
227	Melamine	108-78-1	ND
228	Isobutyl 4-hydroxybenzoate	4247-02-3	ND
229	bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof Bis(2-ethylhexyl) tetrabromophthalate	26040-51-7	ND
230	Barium diboron tetraoxide	13701-59-2	ND
231	4,4'-sulphonyldiphenol	80-09-1	ND
232	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	ND
233	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	37853-59-1	ND

Reporting limit=0.1% (raw material)

SVHC = Substance of very high concern
ND = Not detected (the result is less than the reporting limit)
Reporting limit = Quantitation limit of analyte in sample
Note= Determination was based on elemental analysis. The content was calculated based on assumption of worst-case.

Notes:
1. Substances of very high concern (SVHC) are classified as:
   a. Carcinogenic, mutagenic or toxic to reproduction category 1 (proven on humans) and category 2 (proven on animals)
   b. Persistent, bioaccumulative and toxic chemicals (PBT)
   c. Very persistent and very bioaccumulative chemicals (vPvB)
   d. Other similar substances such as endocrine disrupters
2. If the imported or manufactured volume of each individual SVHC in article is more than 0.1% (w/w) and if it exceeds 1 tonne per year across all product ranges, then importer or manufacturer require notification to the European Chemical Agency (ECHA). For substances included in the Candidate List on or after 1 December 2010, the notifications have to be submitted no later than 6 months after the inclusion. The following information has to be submitted for notification:
   a. Identification of the registrant and the substance b. Classification and labelling of the substance
   c. Description of use of the substance and the article
   d. Registration number, if available e. Tonnage range
3. As per article 31 of regulation (EC) No. 1907/2006 (REACH), suppliers of mixtures not classified as dangerous according to directive 1999/45/EC have to provide the recipients, at their request, with a safety data sheet if the mixtures contain at least one substance on the SVHC candidate list and its individual concentration is 0.1%(w/w) or above for non-gaseous preparations.

REACH requirement:
As per article 33(1) of regulation (EC) No. 1907/2006 (REACH), recipients of product must be provided with information of safe use if any of the tested substances (SVHC) exceeded 0.1% (w/w). A product meets the requirement of article 33(1) by default when no SVHC exceeds 0.1% (w/w).

END OF TEST REPORT

ASD Interior Compact

Technical Data Sheet

Properties	Test Method	Property or Attribute	Unit (max or min)	Values	
				CGS	CGF
SURFACE QUALITY					
Surface Quality	EN-438-4	Spots, dirt and similar surface defects	mm^2/m^2	≤1	
		Fibres, hairs and scratches	mm/m^2	≤10	
DIMENSIONAL TOLERANCES					
Dimensional Tolerances	EN 438-2.5	Thickness tolerance	mm	2,0≤t<3,0: +/-0,20 3,0≤t<5,0: +/-0,30 5,0≤t<8,0: +/-0,40 8,0≤t<12,0: +/-0,50 12,0≤t<16,0: +/-0,60 16,0≤t<20,0: +/-0,70 20,0≤t25,0<25,0: +/-0,80	
	EN 438-2.6	Length and width	mm	+10/-0	
	EN 438-2.7	Straightness of edges	mm/m	≤1,5	
	EN 438-2.8	Squareness	mm/m	≤1,5	
	EN 438-2.9	Flatness	mm/m	2,0≤t<6,0: ≤8,0	
			mm/m	6,0≤t<10: ≤5,0	
			mm/m	10,0≤t: ≤ 3,0	
GENERAL PROPERTIES					
Resistance to surface wear	EN 438-2.10	Initial Point	Revolution	≥ 150	
		Wear Value	Revolution	≥ 350	
Resistance to immersion in boiling water	EN 438-2.12	Mass increase - 2≤t<5	%	5,0	7,0
		Mass increase t≥5	%	2,0	3,0
		Thickness increase 2≤t<5	%	6,0	9,0
		Thickness increase t≥5	%	2,0	6,0
		Appearance-Gloss Finish	Rating (min)	3	
		Appearance-Other Finish	Rating (min)	4	
Resistance to water vapor	EN 438-2.14	Appearance-Gloss Finish	Rating (min)	3	
		Appearance-Other Finish	Rating (min)	4	
Resistance to dry heat (160°C)	EN 438-2.16	Appearance-Gloss Finish	Rating (min)	3	
			Rating (min)	3	
		Appearance-Other Finish	Rating (min)	4	
			Rating (min)	4	
Resistance to wet heat (100°C)	EN 438-2.18	Appearance-Gloss Finish	Rating (min)	3	
		Appearance-Other Finish	Rating (min)	4	
Dimensional stability at elevated temperature	EN 438-2.17	Cumulative dimensional change 2≤t<5 mm	Longitudinal (%)	≤ 0,40	
		Cumulative dimensional change 2≤t<5 mm	Transversal (%)	≤ 0,80	
		Cumulative dimensional change 5 mm ≤ t	Longitudinal (%)	≤ 0,30	
		Cumulative dimensional change 5 mm ≤ t	Transversal (%)	≤ 0,60	
Resistance to impact with large diamater ball	EN 438-2. 21	Indentation diameter 2≤t<6	mm	h 1400*/ d≤10**	
		Indentation diameter t≥6	mm	h 1800*/ d≤10**	
Resistance to crazing (20 hrs at 80°C)	EN 438-2.24	Appearance	Rating (min)	4	
Resistance to scratching	EN 438-2.25	Appearance- Smooth finish	Rating (min)	2	
		Appearance- Textured finish	Rating (min)	3	
Resistance to staining	EN 438-2.26	Appearance- Group 1&2	Rating (min)	5	
		Appearance- Group 3	Rating (min)	4	
Light fastness (Xenon-arc)	EN 438-2.27	Contrast	Grey scale rating	4	
Flexural modulus	EN ISO 178	Stress	Mpa (min)	9000	
Flexural strength	EN ISO 178	Stress	Mpa (min)	80	
Tensile strength	EN ISO 527-2	Stress	Mpa (min)	60	
Density	EN ISO 1183	Density	g / cm3 (min)	1,35	
Reaction to fire / CGS	EN 13823	Classification t: 6 mm – 10 mm	Classification	D-s2,d0	
Reaction to fire / CGF	EN 13823	Classification (t: 6 mm)	Classification	B-s1,d0	
Formaldehyde emission (6mm)	EN 717-1	Gas analysis	$mg/(m^2*h)$	0,03	
		Classification	Rating	E1	

* h: Drop Height
**d: Indentation Diameter

TÜRK STANDARDLARI ENSTİTÜSÜ

TÜRK STANDARDLARINA UYGUNLUK BELGESİ

TURKISH STANDARDS INSTITUTION

CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS

Markanın Tanımı Description of the Mark

TSE veya/or veya/or TSE

BELGE NUMARASI *REFERENCE NUMBER OF LICENCE*	022074-TSE-01/04
BELGENİN İLK VERİLİŞ TARİHİ *DATE OF FIRST ISSUE OF LICENCE*	21.02.2013
BELGENİN SON GEÇERLİLİK TARİHİ *LICENCE VALID UNTIL*	29.12.2025
BELGE SAHİBİ KURULUŞUN ADI *NAME OF THE LICENCE HOLDER*	ASD LAMİNAT A.Ş.
BELGE SAHİBİ KURULUŞUN ADRESİ *ADRESS OF THE LICENCE HOLDER*	YEŞİLKÖY İST. DÜNYA TİC. MERK. BLOK. A1 B1. N.10/1 K.16 OFİS N.463-465-466 BAKIRKÖY İSTANBUL/TÜRKİYE
ÜRETİM YERİ ADI *NAME OF THE MANUFACTURING PLACE*	ASD LAMİNAT ANONİM ŞİRKETİ
ÜRETİM YERİ ADRESİ *ADRESS OF THE MANUFACTURING PLACE*	1.ORGANİZE SANAYİ BÖLGESİ 81600 BEYKÖY DÜZCE / TÜRKİYE
İPTAL EDİLEN BELGE NUMARASI (Varsa) *INDICATION OF SUPERSEDED LICENCE (if any)*	022074-TSE-01/03
TESCİLLİ TİCARİ MARKASI *REGISTERED TRADE MARK*	ASD LAMİNAT
İLGİLİ TÜRK STANDARDI *RELATED TURKISH STANDARD*	TS EN 438-8 / 03.02.2020

BELGE KAPSAMI
SCOPE OF LICENCE

HPL-ATP (Pearlescent, Thin, Postformable), High-pressure decorative laminates
HPL - MTP(Metal, Thin, Postformable), High-pressure decorative laminates

e-imzalı/e-signed

03.12.2024

On Behalf Of The Head Of Certification Center
HESNA AKÇEŞME ÖZDEMİR

SAKARYA CERTIFICATION MANAGER

*This certificate also shows that the production place of the certified product meets the requirements of Institute.
*This certificate under any circumstances cannot be changed, duplicated partially or in a way that makes it difficult to read and erasure cannot be done.
*TSE * Address: 1. Organize Sanayi Bölgesi Doğu Kapısı Şehit Zekeriya Göz Yuman Cad. Hanlı / ADAPAZARI * Telephone: 2642912675* Fax: 2642912678
*TSE HEAD OF CERTIFICATION CENTER; Address: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telephone: 0 312 416 64 81 / 416 64 27, Fax:0 312 416 66 17 E-mail :bmb@tse.org.tr , web : www.tse.org.tr

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ilac-MRA DANAK TEST Reg.nr. 522

ASD Laminat
1. Organize Sanayi Bolgesi Beykoy/Dusce
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VOC TEST REPORT
Indoor Air Comfort GOLD®

08 August 2016

1 Sample Information

Sample name	LAMINATE
Batch no.	-
Production date	28/06/2016
Product type	Furniture facing
Sample reception	30/06/2016

2 Brief Evaluation of the Results

Regulation or protocol	Conclusion	Version of regulation or protocol
French VOC Regulation		Regulation of March and April 2011 (DEVL1101903D and DEVL1104875A)
French CMR components	Pass	Regulation of March and April 2011 (DEVL1101903D and DEVL1104875A)
AgBB	Pass	AgBB of February 2015. DIBt of October 2010
Belgian Regulation	Pass	Royal decree of May 2015 (C-2014/24239)
EMICODE	EC 1 PLUS	November 2015
Indoor Air Comfort®	Pass	Indoor Air Comfort 5.3a of March 2015
Indoor Air Comfort GOLD®	Pass	Indoor Air Comfort GOLD 5.3a of March 2015
EN 717-1§	E1	2004
BREEAM International	Compliant	GN22: BREEAM Recognised Schemes for VOC Emissions from Building Products

Full details based on the testing and direct comparison with limit values is available in the following pages

Maria Pelle
Chemist

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Analytical Service Manager

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3 Applied Test Methods

3.1 General Test References

Regulation, protocol or standard	Version	Reporting limit VOC [µg/m³]	Calculation of TVOC	Combined uncertainty¤ [RSD(%)]
CEN/TS 16516	October 2013	5	Toluene equivalents	22.5%
ISO 16000 -3 -6 -9 -11	2006-2011 depending on part	2	Toluene equivalents	22.5%
French VOC	Regulation of March and April 2011 (DEVL1101903D and DEVL1104875A)	2	Toluene equivalents	22.5%
AgBB/DIBt	February 2015/October 2010	5	Compound Specific	22.5%
Belgian VOC	Royal decree of May 2015 (C - 2014 / 24239)	5	Toluene equivalents	22.5%
EMICODE	November 2015	5	Toluene equivalents	22.5%
EN 717-1§	2004	-	(Formaldehyde only)	22.5%

3.2 Specific Laboratory Sampling and Analyses

Procedure	External Method	Internal S.O.P.	Quantification limit / sampling volume	Analytical principle	Uncertainty¤
Sample preparation	ISO 16000-11:2006, EN16402:2013, CDPH, AgBB/DIBt, EMICODE	71M549810	-	-	-
VOC emission chamber testing	ISO 16000-9:2006, CEN/TS 16516:2013	71M549811	-	Chamber and air control	-
Sampling of VOC	ISO 16000-6:2011, CEN/TS 16516:2013	71M549812	5 L	Tenax TA	-
Analysis of VOC	ISO 16000-6:2011, CEN/TS 16516:2013	71M542808B	1 µg/m³	ATD-GC/MS	10%
Sampling of aldehydes	ISO 16000-3:2011, CEN/TS 16516:2013	71M549812	35 L	DNPH	-
Analysis of aldehydes	ISO 16000-3:2011, EN 717-1, CEN/TS 16516:2013	71M548400	3-6 µg/m³	HPLC-UV	10%
Sampling of phthalates	ISO 16200-1, MEL-09, OSHA CSI	71M549812	60 L	XAD-2	-
Analysis of phthalates*	CPSC-CH-C1001-09.3 (2010)	71M546060	0.6 µg/m³	GC/MS	10%

4 Test Parameters, Sample Preparation and Deviations

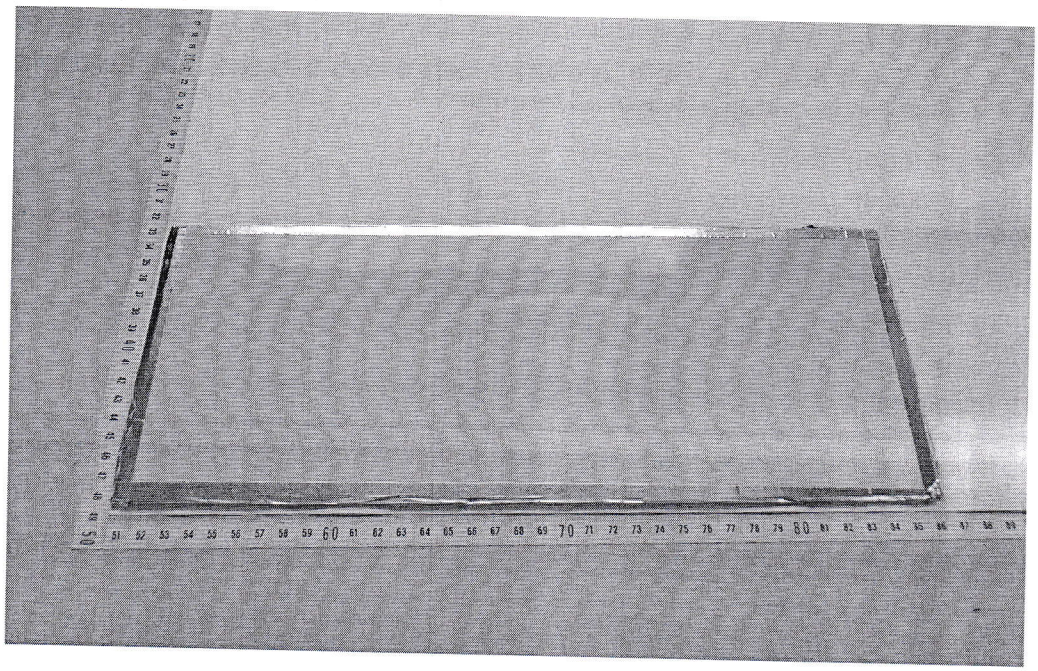
4.1 VOC Emission Chamber Test Parameters

Parameter	Value	Parameter	Value
Chamber volume, V[L]	119	Preconditioning period	-
Air Change rate, n[h^{-1}]	0.5	Test period	06/07/2016 - 03/08/2016
Relative humidity of supply air, RH [%]	50 ± 3	Area specific ventilation rate, q [m/h or $m^3/m^2/h$]	1.25
Temperature of supply air, T [°C]	23 ± 1	Loading factor [m^2/m^3]	0.4

4.2 Preparation of the Test Specimen

Edges and back were covered with aluminium foil and aluminium tape.

4.3 Picture of Sample



4.4 Deviations from Referenced Protocols and Regulations

No deviations from the referenced test methods were observed except the general deviations.

4.4.1 General Deviations

Method	Deviation details	Impact on results or correction
EN 717-1[§]	Sampling flow on DNPH was 300 mL/min. The RH% in the supply air to the chamber was 50 ± 3% and not 45 ± 3% during the test. The temperature was 23 ± 1°C and not 23 ± 0.5°C. The air change rate was 0.5/h and not 1/h. The sample was tested without open edges unless elsewise stated under sample preparation.	Formaldehyde concentration can be expected to be slightly overestimated compared to EN 717-1 due to the higher RH% and lower air change rate in ISO 16000-9. The E1 limit value of 120 µg/m³ has been recalculated to SER_A of 120 µg/m²/h and compared with the detected SER_A (in accordance with conclusion presented in CEN TC351 WG2 N174).

5 Results

5.1 VOC Emission Test Results after 3 Days

	CAS No.	Retention time [min]	ID-Cat	Specific Conc. [µg/m³]	Toluene eq. [µg/m³]	Specific SER [µg/(m²*h)]	R_D	R_B
VOC with NIK								
None determined								
VOC without NIK								
None determined								
Sum of VOC without NIK				< 5	< 5	< 7		
TVOC				< 5	< 5	< 7		
VVOC compounds								
None determined								
TVVOC				< 5	< 5	< 7		
SVOC compounds								
None determined								
TSVOC				< 5	< 5	< 7		
Carcinogens								
Total carcinogens				< 1	< 1	< 2		
Aldehydes								
Formaldehyde	50-00-0		1	8.4	-	11	0.084	-
Acetaldehyde	75-07-0		1	< 3	-	< 4	-	-
Propionaldehyde	123-38-6		1	< 3	-	< 4	-	-
Butyraldehyde	123-72-8		1	< 3	-	< 4	-	-
R-values							0.084	0

5.2 VOC Emission Test Results after 28 Days

	CAS No.	Retention time [min]	ID-Cat	Specific Conc. [µg/m³]	Toluene eq. [µg/m³]	Specific SER [µg/(m²*h)]	R_D	R_B
VOC with NIK								
None determined								
VOC without NIK								
None determined								
Sum of VOC without NIK				< 5	< 5	< 7		
TVOC				< 5	< 5	< 7		
VVOC compounds								
None determined								
TVVOC				< 5	< 5	< 7		
SVOC compounds								
None determined								
TSVOC				< 5	< 5	< 7		
Carcinogens								
Total carcinogens				< 1	< 1	< 2		
CMR substances								
Benzene	71-43-2		1	< 1	-	< 2		
Trichloroethylene	79-01-6		1	< 1	-	< 2		
Dibutylphthalate (DBP)*	84-74-2		1	< 1	-	< 2		
Diethylhexylphthalate (DEHP)*	117-81-7		1	< 1	-	< 2		
Aldehydes								
Formaldehyde	50-00-0		1	6.4	-	8.0	0.064	-
Acetaldehyde	75-07-0		1	< 3	-	< 4	-	-
Propionaldehyde	123-38-6		1	< 3	-	< 4	-	-
Butyraldehyde	123-72-8		1	< 3	-	< 4	-	-
R-values							0.064	0
TVOC (French label)					< 2			
Toluene	108-88-3			< 2	< 2	< 3		
Tetrachloroethylene	127-18-4			< 2	< 2	< 3		
Ethylbenzene	100-41-4			< 2	< 2	< 3		
Xylene	1330-20-7			< 2	< 2	< 3		

	CAS No.	Retention time [min]	ID-Cat	Specific Conc. [µg/m³]	Toluene eq. [µg/m³]	Specific SER [µg/(m²*h)]	R_D	R_B
Styrene	100-42-5			< 2	< 2	< 3		
2-Butoxyethanol	111-76-2			< 2	< 2	< 3		
1,2,4-Trimethylbenzene	95-63-6			< 2	< 2	< 3		
1,4-Dichlorobenzene	106-46-7			< 2	< 2	< 3		

6 Summary and Evaluation of the Results

6.1 Comparison with Limit Values of the French VOC Regulation

	CAS No.	Conc. 28 days µg/m³	C µg/m³	B µg/m³	A µg/m³	A+ µg/m³
TVOC	-	< 2	>2000	<2000	<1500	<1000
Formaldehyde	50-00-0	6.4	>120	<120	<60	<10
Acetaldehyde	75-07-0	< 3	>400	<400	<300	<200
Toluene	108-88-3	< 2	>600	<600	<450	<300
Tetrachloroethylene	127-18-4	< 2	>500	<500	<350	<250
Ethylbenzene	100-41-4	< 2	>1500	<1500	<1000	<750
Xylene	1330-20-7	< 2	>400	<400	<300	<200
Styrene	100-42-5	< 2	>500	<500	<350	<250
2-Butoxyethanol	111-76-2	< 2	>2000	<2000	<1500	<1000
1,2,4-Trimethylbenzene	95-63-6	< 2	>2000	<2000	<1500	<1000
1,4-Dichlorobenzene	106-46-7	< 2	>120	<120	<90	<60

The product was assigned a VOC emission class without taking into account the measurement uncertainty associated with the result. As specified in French Decree no. 2011-321 of March 23 2011, correct assignment of the VOC emission class is the sole responsibility of the party responsible for distribution of the product in the French market.

6.2 Comparison with Limit Values of the CMR Components

CMR substances	CAS No.	Conc. 28 days µg/m³	Max. allowed air concentration µg/m³
Benzene	71-43-2	< 1	< 1
Trichloroethylene	79-01-6	< 1	< 1
Dibutylphthalate (DBP)*	84-74-2	< 1	< 1
Diethylhexylphthalate (DEHP)*	117-81-7	< 1	< 1

6.3 Comparison with Limit Values of AgBB

Parameter	Test after 3 days		Test after 28 days	
	Concentration mg/m³	Limit Value mg/m³	Concentration mg/m³	Limit Value mg/m³
TVOC	< 0.005	≤ 10	< 0.005	≤ 1.0
TSVOC	< 0.005	-	< 0.005	≤ 0.1
R-value (dimensionless)	0.084	-	0.064	≤ 1
Sum without NIK	< 0.005	-	< 0.005	≤ 0.1
Formaldehyde	-	-	0.0064	≤ 0.1
Total carcinogens	< 0.001	≤ 0.01	< 0.001	≤ 0.001

Compliance with the limits alone does not entitle to use the AgBB requirements in conjunction with approval by DIBt. This requires an application, site inspection, and approval. See www.eurofins.com/dibt-procedures.

6.4 Comparison with Limit Values of the Belgian Regulation

Parameter	Test after 28 days	
	Concentration µg/m³	Limit Value µg/m³
TVOC	< 5	≤ 1000
TSVOC	< 5	≤ 100
R-value (dimensionless)	0	≤ 1
Total carcinogens	< 1	≤ 1
Toluene	< 5	≤ 300
Formaldehyde	6.4	≤ 100
Acetaldehyde	< 3	≤ 200

6.5 Comparison with Limit Values of EMICODE

Parameter	Concentration µg/m³	EC 2 µg/m³	EC 1 µg/m³	EC 1 PLUS µg/m³
TVOC 3 days	< 5	≤ 3000	≤ 1000	≤ 750
TVOC 28 days	< 5	≤ 300	≤ 100	≤ 60
TSVOC 28 days	< 5	≤ 100	≤ 50	≤ 40
Sum without NIK 28 days	< 5	>40		≤ 40
R-value 28 days (dimensionless)	0.064	>1		≤ 1
Formaldehyde 3 days	8.4	≤ 50		
Acetaldehyde 3 days	< 3	≤ 50		
Sum Formaldehyde + Acetaldehyde [ppm]	0.0067	≤ 0.05		
Sum carcinogens 3 days	< 1	≤ 10		
Sum carcinogens 28 days	< 1	≤ 1		

This test report does not alone entitle to use the protected trademark label EMICODE. For the use of an EMICODE label a license has to be applied for at the GEV, Düsseldorf, Germany. A license can only be granted for ready-to use products, if some additional requirements on contents of certain chemicals (e.g. solvent-free) are fulfilled.

Note: The label is supplemented with a final letter R (e.g. EMICODE EC 1 R) for installation products that fulfill the specification in clause 3.1.2 sentence 2 of GEV classification criteria and that therefore may require measures for ensuring occupational safety during application.

6.6 Comparison with Limit Values of EN 717-1$

Parameter	Concentration mg/m³	E2 mg/m³	E1 mg/m³
Formaldehyde 28 days	0.0064	> 0.10	≤ 0.10

The formaldehyde result is based on chamber testing and DNPH sampling according to ISO 16000. The result is therefore not directly according to the EN 717-1, and there are a few small deviations from EN 717-1 (see section on general deviations). The testing is in accordance with conclusions presented in CEN TC351 WG2 N174 where the difference and compatibility between EN 717-1 and ISO 16000 are empirically and theoretically analysed. For results close to the limit value it is recommended to perform an EN 717-1 test for verification.

6.7 Comparison with Limit Values of Indoor Air Comfort®

	Test after 3 days		Test after 28 days	
	Concentration µg/m³	Limit Value µg/m³	Concentration µg/m³	Limit Value µg/m³
TVOC (CEN/TS 16516)	< 5	≤ 10000	< 5	≤ 1000
TSVOC	< 5	-	< 5	≤ 100
R_D-value (NIK) (dimensionless)	0.084	-	0.064	≤ 1
R_B-value (LCI) (dimensionless)	0	-	0	≤ 1
TVOC without NIK or LCI	< 5	-	< 5	≤ 100
Total carcinogens	< 1	≤ 10	-	-
Any individual carcinogens	-	-	< 1	≤ 1
CMR substances	-	-	< 1	≤ 1
Formaldehyde	8.4	-	6.4	≤ 60
Acetaldehyde	< 3	-	< 3	≤ 200
French A+/A	-	-	Complies	

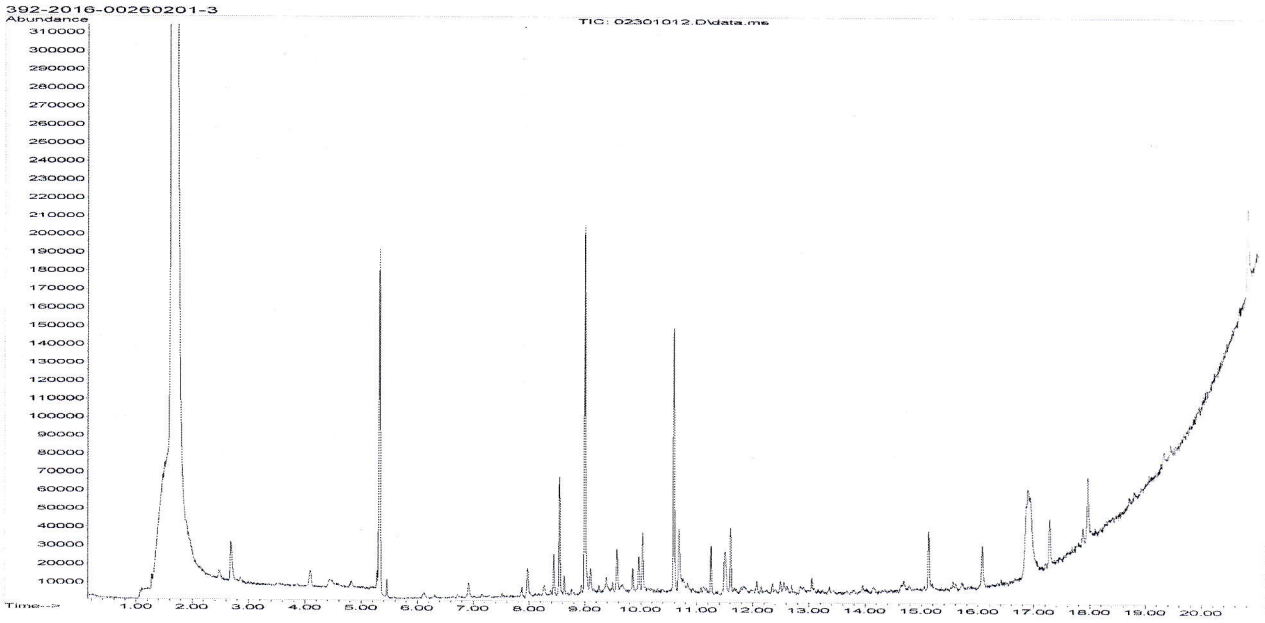
Compliance with the limits alone does not entitle to use the Indoor Air Comfort label. This requires an application, site inspection, and approval. See www.eurofins.com/iac-procedures.

6.8 Comparison with Limit Values of Indoor Air Comfort GOLD®

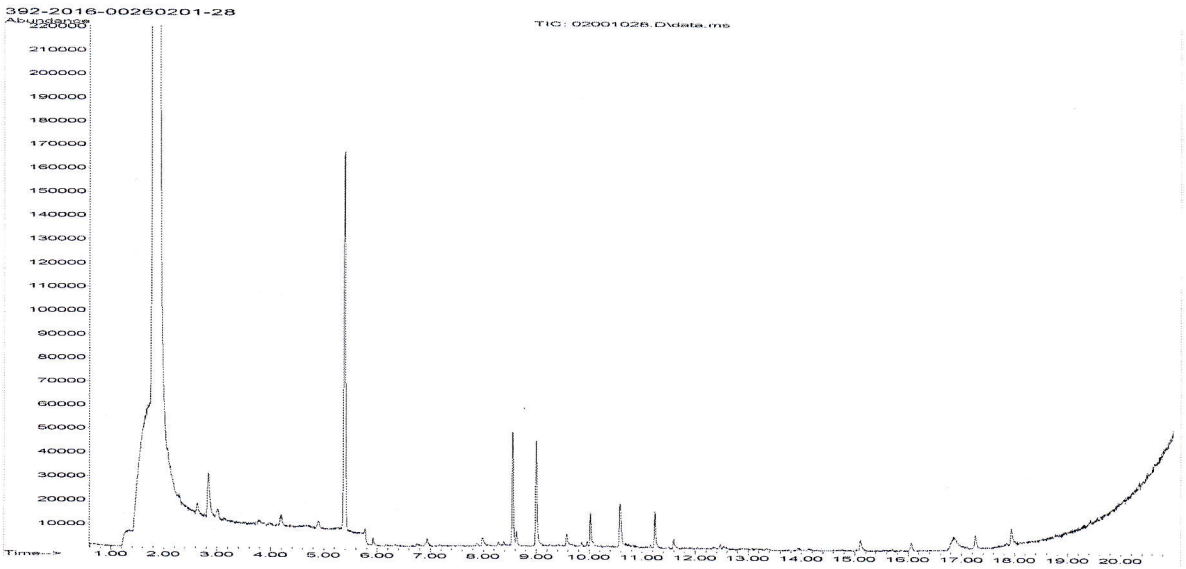
	Test after 3 days		Test after 28 days	
	Concentration µg/m³	Limit value µg/m³	Concentration µg/m³	Limit value µg/m³
TVOC (CEN/TS 16516)	< 5	≤ 1000	< 5	≤ 160
TSVOC	< 5	-	< 5	≤ 30
R_D-value (NIK) (dimensionless)	0.084	-	0.064	≤ 1
R_B-value (LCI) (dimensionless)	0	-	0	≤ 1
Total VOC without NIK or CLI	< 5	-	< 5	≤ 100
Total Carcinogens	< 1	≤ 10	-	-
Any individual carcinogens	-	-	< 1	≤ 1
CMR Substances (according to French CMR regulation)	-	-	< 1	≤ 1
Formaldehyde	8.4	-	6.4	≤ 10
Acetaldehyde	< 3	-	< 3	≤ 200
French A+	-	-	**complies**	

7 Appendices

7.1 Chromatogram of VOC Emissions after 3 Days



7.2 Chromatogram of VOC Emissions after 28 Days



Please consider the different scales.

7.3 Sampling Report

7.4 How to Understand the Results

7.4.1 Acronyms Used in the Report

< Means less than

> Means bigger than

* Not a part of our accreditation

¤ Um(%) is given as 2x RSD%. Please see section regarding Uncertainty in the Appendices.

§ Deviation from method. Please see deviation section

a The method is not optimal for very volatile compounds. For these substances smaller results and a higher measurement uncertainty cannot be ruled out.

b The component originates from the wooden panels and is thus removed.

c The results have been corrected by the emission from wooden panels.

d Very polar organic compounds are not suitable for reliable quantification using tenax TA adsorbent and HP-5 GC column. A high degree of uncertainty must be expected.

SER Specific emission rate.

7.4.2 Explanation of ID Category

Categories of Identity:

1: Identified and specifically calibrated

2: Identified by comparison with a mass spectrum obtained from library and supported by other information. Calibrated as toluene equivalent.

3: Identified by comparison with a mass spectrum obtained from a library. Calibrated as toluene equivalent.

4: Not identified, calibrated as toluene equivalent.

7.5 Applied LCI and NIK Values

7.5.1 LCI/NIK Values for Compounds found after 3 Day Measurements

Compound	CAS No.	AgBB 2015 NIK [µg/m³]	Belgian NIK [µg/m³]
None determined	-	-	-

7.5.2 LCI/NIK Values for Compounds found after 28 Day Measurements

Compound	CAS No.	AgBB 2015 NIK [µg/m³]	Belgian NIK [µg/m³]
None determined	-	-	-

7.6 Description of VOC Emission Test

7.6.1 Test Chamber

The test chamber is made of stainless steel. A multi-step air clean-up is performed before loading the chamber, and a blank check of the empty chamber is performed.
The chamber operation parameters are as described in the test method section. (CEN/TS 16516, ISO 16000-9, internal method no.: 71M549811).

7.6.2 Expression of the Test Results

All test results are calculated as specific emissions rate, and as extrapolated air concentration in the European Reference Room (CEN/TS 16516, AgBB, EMICODE, M1 and Indoor Air Comfort).

7.6.3 Testing of Carcinogenic VOCs

The emission of carcinogens (EU Categories C1A and C1B, as per European law) is tested by drawing sample air from the test chamber outlet through Tenax TA tubes after the specified duration of storage in the ventilated test chamber. Analysis is performed by ATD-GC/MS (automated thermal desorption coupled with gas chromatography and mass spectroscopy using 30 m HP-5 (slightly polar) column with 0.25 mm ID and 0.25 µm film, Agilent) (CEN/TS 16516, ISO 16000-6, internal methods no.: 71M549812 / 71M542808B).

All identified carcinogenic VOCs are listed; if a carcinogenic VOC is not listed then it has not been detected. Quantification is performed using the TIC signal and authentic response factors, or the relative response factors relative to toluene for the individual compounds.

This test only covers substances that can be adsorbed on Tenax TA and can be thermally desorbed. If other emissions occur, then these substances cannot be detected (or with limited reliability only).

7.6.4 Testing of VOC, SVOC and VVOC

The emissions of volatile organic compounds are tested by drawing sample air from the test chamber outlet through Tenax TA tubes after the specified duration of storage in the ventilated test chamber. Analysis is performed by ATD-GC/MS using HP-5 column (30 m, 0.25mm ID, 0.25µm film) (CEN/TS 16516, ISO 16000-6, internal methods no.: 71M549812 / 71M542808B).

All single substances that are listed with a LCI/NIK value in the latest publications (hereafter referred to as target compounds) are identified if present. All other appearing VOCs are identified as far as possible. Quantification of target compounds is done using the TIC signal and authentic response factors, or the relative response factors relative to toluene. For certain compound groups, which differ significantly in chemistry from toluene, quantification is performed relative to a representative member of the group for more accurate and precise results. This can include quantification of for example glycols and acids. In addition to that, all results are also expressed in toluene equivalents. All non-target compounds, as well as all non-identified substances, are quantified in toluene equivalents.

The results of the individual substances are calculated in three groups depending on their retention time when analyzing using a non-polar column (HP-1):

- Volatile Organic Compounds (VOC) are defined as: All substances eluting between and including n-hexane (n-C6) and n-hexadecane (n-C16)
- Semi-Volatile Organic Compounds (SVOC) are defined as: All substances eluting after n-hexadecane (n-C16) and before and including n-docosane (n-C22)
- Very Volatile Organic Compounds (VVOC) are defined as: All substances eluting before n-hexane (n-C6).

Total Volatile Organic Compounds (TVOC) is calculated by summation of all individual VOCs with a concentration ≥ 5 µg/m³. The TVOC can be expressed either in toluene equivalents as defined in CEN/TS 16516 and similar to ISO 16000-6, or as the sum of concentrations using specific or relative response factors. In the case of summation of concentrations using authentic or relative response factors, the toluene equivalent is applied to all non-target and non-identified VOCs before summing up. Compounds regarded as VOC in line with the above definition but elute before n-C6 or after n-C16 on the HP-5 column are treated as VOC, and are thus added to the TVOC.

Total Semi-Volatile Organic Compounds (TSVOC) is calculated by the summation of all individual SVOCs expressed in toluene equivalents with a concentration ≥ 5 µg/m³, as defined in CEN/TS 16516. VOCs that are regarded as VOC in line with the above definition, but elute after n-C16 in this test, are not added to the TSVOC.

Total Very Volatile Organic Compounds (TVVOC) is calculated by the summation of all individual VVOCs with a concentration ≥ 5 µg/m³ and expressed in toluene equivalents. VOCs that are regarded as VOC in line with the above definition, but elute before n-C6 in this test, are not added to the TVVOC.

This test only covers substances which can be adsorbed on Tenax TA and can be thermally desorbed. If emissions of substances outside these specifications occur then these substances cannot be detected (or with limited reliability only).

7.6.5 Calculation of R Values with LCI Lists

The concentrations of detected compounds ≥ 5 µg/m³ are divided by their respective LCI/NIK value (if defined in the given publication). The sum of the quotients gives the R value, which can be mathematically expressed:

$$R = \sum_{i}^{n} \left({}^{c_i}/_{NIK_i} + \ldots + {}^{c_n}/_{NIK_n} \right)$$

This R value is calculated, depending on the purpose of this test, for the European LCI list, for the German LCI/NIK list (R_D), and/or for the Belgian LCI list (R_B).

All VOCs without published LCI/NIK value and concentration ≥ 5 µg/m³ are summed up as sum of VOCs without LCI/NIK if required by the standard or protocol.

7.6.6 Testing of Aldehydes

The presence of aldehydes after the specified duration of storage in the ventilated test chamber is tested by drawing air samples from the test chamber outlet through DNPH-coated silicagel tubes after the specified duration of storage in the ventilated test chamber. Analysis is performed by solvent desorption and subsequently by HPLC and UV-/diode array detection.

The absence of formaldehyde and other aldehydes is stated if UV detector response at the specific wavelength is lacking at the specific retention time in the chromatogram. Otherwise it is checked whether the reporting limit is exceeded. In this case the identity is finally checked by comparing full scan sample UV spectra with full scan standard UV spectra.

7.6.7 Testing of Phthalates

The presence of phthalates is tested by drawing air samples from the test chamber outlet through tube with XAD-II adsorbent after the specified duration of storage in the ventilated test chamber. Analysis is performed by solvent desorption and subsequently by GC/MS. Analysis of phthalates is not currently covered by the accreditation (Internal methods no.: 71M549812 / 71M546060).

7.7 Quality Assurance

Before loading the test chamber, a blank check of the empty chamber is performed and compliance with background concentrations in accordance with CEN/TS 16516 / ISO 16000-9 is determined.

Air sampling at the chamber outlet and subsequent analysis is performed in duplicate. Relative humidity, temperature and air change rate in the chambers is logged every 5 minutes and checked daily. A double determination is performed on random samples at a regular interval and results are registered in a control chart to ensure the uncertainty and reproducibility of the method.

The stability of the analytical system is checked by a general function test of device and column, and by use of control charts for monitoring the response of individual substances prior to each analytical sequence.

7.8 Accreditation

The testing methods described above are accredited on line with EN ISO/IEC 17025 by DANAK (no. 522). This accreditation is valid worldwide due to mutual approvals of the national accreditation bodies (ILAC/IAF, see also www.eurofins.com/galten.aspx#accreditation.

Not all parameters are covered by this accreditation. The accreditation does not cover parameters marked with an asterisk (*), however analysis of these parameters is conducted at the same level of quality as for the accredited parameters.

7.9 Uncertainty of the Test Method

The relative standard deviation of the overall analysis is 22.5%. The expanded uncertainty Um equals 2 x RSD. For further information please visit www.eurofins.dk/uncertainty.

Forschungs- und Untersuchungs-
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Aschaffenburg, 4 December 2020

From: Be-pf
Authorized by: Behrendt

REPORT

Order No.: 17662/4 **Page 1 of 2 pages**

Client: ASD Laminat A.Ş
Organize Sanayi Bölgesi
81600 Beyköy, Düzce
Turkey

Date of order: 23 October 2020

Receipt of sample material: 26 October 2020

Origin of sample material: From the client

Purpose: Analysis of a laminate grade for the specific migration behaviour

(Dr. Derra)
Managing Director

(Behrendt)
Officially certified
and authorized food
chemist

The present report refers exclusively to the samples as laid out therein. Information and statistical data on the results can be obtained on request.

DAkkS
Deutsche
Akkreditierungsstelle
D-PL-14160-01-01
D-PL-14160-01-02

Sample Material

For analysis the following sample material was in hand:

1 laminate grade without further designation

Carrying out of the Tests

Examination period: 26 October 2020 to 16 November 2020

Determination of the Specific Migration *

The determination was performed according to the series of standards EN 1186:2002-07 and the EN 13130-1:2004-08. If required, the CEN/TS 14234:2003-01 as well as CEN/TS 14235:2003-01 were considered.

The test simulants as well as the contact conditions were chosen in accordance with the requirements of annex III and V of Regulation (EU) No 10/2011.

Conditions:	24 hours at 40 °C
Test simulants:	acetic acid 3 % (w/w) (food simulant B)
Testing procedure:	one-sided contact (surface)
	Repeated use (Repeated test on the same specimen using another portion of food simulant on each occasion)

Melamine [108-78-1] *

The determination was performed according to CEN/TS 13130-27:2005-5 by means of HPLC-UV.

Result:

1st migrate:	not quantifiable	<	0.01	mg/dm²
2nd migrate:	not quantifiable	<	0.01	mg/dm²
3rd migrate:	not quantifiable	<	0.01	mg/dm²

The accreditation applies to the methods marked with * in the test report (Register no. D-PL-14160-01-01 and D-PL-14160-01-02).

End of report