

Stockmeier Urethanes France SAS
Z.I. Est-8, rue de l'Industrie . F-68700 Cernay, Frankreich

Company
Harke Romania SCS
Str. Drumul Sarii 17e
060151 BUCURESTI
ROUMANIE

Test report "2.2" EN 10204

Date
05.08.2022
Purchase order item/Date
Delivery item/Date
Order item/Date
Customer number
309012
Fax (Ship-to party)

Material: Our / Your description
S166.TP COMP.B

Batch 12214804

Inspection lot 40001195575

Characteristic	Unit	Value	Lower Limit	Upper Limit	Method
NCO CONTENT	%	11,48	11,20	11,80	
VISCOSITY SPINDLE 2 SPEED 20 AT 20°C	mPa.s	33	30	50	
DRY EXTRACT AT 130°C	%	50,41	50,00	55,00	

We hereby certify that the above-mentioned product has been inspected and analysed according to the terms and conditions of the contract or order and, unless otherwise agreed, meets the corresponding specifications.

The statements and information contained in this certificate refer to values obtained by our quality control laboratory with the analytical methods and measuring devices mentioned in the certificate. This certificate does not constitute a legal guarantee for the use of the product for a specific purpose.

This document has been prepared electronically and is valid without signature.

Yours faithfully
Stockmeier Urethanes France SAS

Quality lab

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Test report "2.2"

EN 10204

Date

05.08.2022

Purchase order item/Date

Delivery item/Date

Order item/Date

Customer number
309012

Fax (Ship-to party)

Material: Our / Your description
S166.97 [BLANC] COMP.A

Batch 12225134

Inspection lot 40001200609

Characteristic	Unit	Value	Lower Limit	Upper Limit	Method
PYCNOMETER DENSITY AT 20°C	g/cm3	1,416	1,300	1,450	
DRY EXTRACT AT 160°C	%	75,71	73,00	78,00	
4mm AFNOR CUP A+B VISCOSITY AT 20°C	s	60	50	70	
END CURE	h	14,4	0,0	24,0	

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BUREAU
VERITAS

Bureau Veritas Certification

Сертификат Выдан

Unirubber Sp. z o.o. Zielonka 17, 59-940 WĘGLINIEC ПОЛЬША

Bureau Veritas Certification удостоверяет, что Система Менеджмента
вышеупомянутой организации оценена и признана соответствующей требованиям
стандартов менеджмента, указанных ниже

СТАНДАРТ

ISO 9001:2015

ОБЛАСТЬ СЕРТИФИКАЦИИ

**ПРОИЗВОДСТВО И ПРОДАЖА РЕЗИНОВЫХ И ТЕРМОПЛАСТИЧНЫХ
ГРАНУЛЯТОВ И КОМПОНЕНТОВ ДЛЯ НАПОЛЬНЫХ ПОКРЫТИЙ
СПОРТИВНЫХ И РАЗВЛЕКАТЕЛЬНЫХ ОБЪЕКТОВ**

Дата действия предыдущего сертификата: **24 августа 2024**

При условии постоянного успешного функционирования Системы Менеджмента организации данный
сертификат действителен до: **23 августа 2027**

По вопросам действительности настоящего сертификата звоните по тел: +48 22 549 04 00
Дальнейшие разъяснения относительно области сертификации и применимости требований системы
менеджмента могут быть запрошены у вышеупомянутой организации.

Дата выпуска: **23 ноября 2024**

Сертификат №: **PL016420/P**

Joanna Waberska
Local Technical Manager



AC 081

PRODUCT SAFETY DATA SHEET

according to Regulation (EU) 2020/878 (REACH)

EPDM Granulate from recycling black

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: EPDM Granulate from recycling black

1.2 Relevant identified uses of the substance or mixture and uses advised against

General use: Athletics tracks, multipurpose sports fields, tennis courts, playgrounds.
Only for industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Company name: Unirubber Sp. z o.o.
Street: Zielonka 17
Postal code, city, country: 59-940 Węliniec, Polska
WWW: www.unirubber.com.pl
Telephone: + 48 75 772 10 00
E-mail: unirubber@unirubber.com.pl

1.4 Emergency telephone number

Telephone: +48 75 772 10 00 (8.00 – 16.00)

SECTION 2: Hazards identification

2.1 Classification of the product

The product is classified as not hazardous.

The product has a certificate of the Polish Institute of Hygiene in Warsaw (PZH certificate).

2.2 Label elements

Labelling (CLP)

Hazard statements: Not applicable

Precautionary statements: Not applicable

Special labelling

Not applicable

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2.3 Other hazards

Handling and/or processing of this material may generate dust which can cause mechanical irritation of the eyes, skin, nose and throat.

This product contains microplastics as defined in Annex XVII to Regulation (EC) No 1907/2006 (REACH), Entry 78. The product is intended for **professional use only**.

Unintentional release of the granulates into the environment should be avoided, as microplastics are persistent in the environment.

SECTION 3: Composition / information on ingredients

Hazardous ingredients

Chemical characterisation:

Recycled rubber granulates is made of waste rubber products, subjected to recycling processes. The granulate is composed of EPDM synthetic rubber, plasticizers, fillers, vulcanizing agents and accelerators of the vulcanization process as well as various additives. All components are physically bound in the polymer and do not pose a hazard under recommended processing conditions and when used as intended.

The product meets the definition of microplastic according to Annex XVII to Regulation (EC) No 1907/2006 (REACH), Entry 78. The product is supplied exclusively for **professional use** in industrial and/or professional applications.

SECTION 4: First aid measures

4.1 Description of first aid measures

In case of inhalation:

Ensure proper ventilation

In case of skin contact:

Remove residues with soap and water. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

After eye contact:

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.

After swallowing:

Rinse mouth and drink large quantities of water. Never give anything by mouth to an unconscious person. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Handling and/or processing of this material may generate dust which can cause mechanical irritation of the eyes, skin, nose and throat.
 Processing by heating can produce vapors.

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4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet.

5.2 Special hazards arising from the substance or mixture

May form dangerous gases and vapors in case of fire.

In case of fire may be liberated: metal oxide smoke, nitrogen oxides, carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Hazchem-Code: -

Do not breathe fumes. Use fine water spray to cool endangered containers.

Do not allow water used to extinguish fire to enter drains, ground or waterways.

Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Avoid contact with the product.

Avoid generation of dust. Avoid breathing dust and vapors.

Provide adequate ventilation.

6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains.

If necessary, notify appropriate authorities.

6.3 Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

Final cleaning.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

PRODUCT SAFETY DATA SHEET

according to Regulation (EU) 2020/878 (REACH)

EPDM Granulate from recycling black

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling:

This product is intended for professional users only.

Handling shall be carried out under controlled conditions to prevent the unintentional release of granulates into the environment, into drains, water and soil.

Appropriate technical measures should be implemented to minimize losses of granulates, such as:

Transport and store granules in tight bags/containers protected from spillage. Store granules in designated areas: marked and secured against spillage.

Avoid pouring loosely. It is recommended to use closed containers. Spilled granules should be collected mechanically and reused or appropriately disposed.

Use appropriate personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Recommended storage temperature: <30 °C.

Hints on joint storage:

Do not store with oxidizing agents. Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposures limit values:

CAS No	Designation	Type	Limit value
1314-13-2	Zinc oxide	Great Britain: MEL/OES-STEL	10 mg/m ³ Smoke
		Great Britain: MEL/OES-TWA	5 mg/m ³ Smoke
471-34-1	Calcium carbonate	Great Britain: WEL-TWA	10 mg/m ³ (inhalable fraction)
		Great Britain: WEL-TWA	4 mg/m ³ (respirable fraction)

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8.2 Exposure controls

Provide good ventilation in the work area.

Personal protection equipment

Occupational exposure controls

Respiratory protection:

Respiratory protection must be worn whenever the WEL levels have been exceeded. Particulates filter P2 according to EN 143.

Hand protection:

In case of prolonged or frequently repeated skin contact:
Protective gloves according to EN 374

Eye protection:

When dust and vapours form: safety glasses in accordance with EN 166.

Body protection:

Wear suitable protective clothing.

General protection and
hygiene measures:

Take off contaminated clothing and wash it before reusing.
Avoid contact with skin. When using does not eat, drink or smoke.

Environmental exposure controls

Do not allow to penetrate into soil, waterbodies or drains. If necessary, notify appropriate authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	granulate
Colour	black
Odour	characteristic
Odour threshold	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point/flash point range	No data available
pH value	No data available
Evaporation rate	No data available
Flammability	No data available
Explosion limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Water solubility	insoluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	> 200 °C
Viscosity, kinematic	No data available
Explosive properties	No data available
Oxidizing characteristics	none

9.2 Other information

Additional information:

No data available

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SECTION 10: Stability and reactivity

10.1 Reactivity

The product is stable and unreactive under normal conditions.

10.2 Chemical stability

The product is stable under given storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored as intended.

10.4 Conditions to avoid

No data

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

At temperatures above 160 °C hazardous decomposition products may be generated.

Formation of: aldehydes, polycyclic aromatic hydrocarbons.

In case of fire may be liberated: metal oxide smoke, nitrogen oxides (NO_x), carbon monoxide and carbon dioxide. Thermal decomposition: > 200°

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological effects:

Acute toxicity (oral): Based on available data, the classification criteria are not met.
 May be harmful if swallowed.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

Inhalation of dust may cause irritation of the respiratory system.

Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

In vitro eye test: Lack of data.

Dust contact with the eyes can lead to mechanical irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Based on available data, the classification criteria are not met.

The components in this formulation do not meet the criteria for classification as CMR category 1 or 2.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met. No likelihood of exposure (physical form of product).

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

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EPDM Granulate from recycling black

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Other information:

Information about zinc oxide:

LD50 Rat, oral: >5000 mg/kg (OECD 401)

LD50 Rat, dermal: >2000 mg/kg (OECD 402)

LC50 Rat, inhalative: >5.7 mg/L/4h (OECD 403)

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

The product is not classified as hazardous to the aquatic environment.

Information about zinc oxide:

Fish toxicity: NOEC Brachydanio rerio (zebra-fish): >540 µg/L (OECD TG 210)

Daphnia toxicity: EC50 Daphnia magna (Big water flea): >1.7 mg/L/48h (OECD 202, nano ZnO)

Algae toxicity: IC50 Pseudokirchneriella subcapitata (green algae): 136 µg/L/72h (OECD 201)

12.2 Persistence and degradability

Further details: The product is hardly biodegradable.

Effects in sewage plants:

Due to its low solubility in water the product is almost completely mechanically separated in biological sewage plants.

12.3 Bioaccumulative potential

No bioaccumulation is to be expected.

12.4 Mobility in soil

The product is not mobile in soil and water environment.

12.5 Results of PBT and vPvB assessment

This product contains microplastics as defined in Annex XVII to Regulation (EC) No 1907/2006 (REACH), Entry 78. Microplastics are persistent in the environment and may accumulate in aquatic and terrestrial environments.

The product does not meet the criteria for PBT or vPvB substances; however, due to the presence of microplastics, environmental exposure should be minimized.

12.6 Endocrine disrupting properties

Information is not available.

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12.7. Other adverse effects

Information is not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Recommendation:

During waste handling and disposal, release of granulate into the environment shall be prevented.

If recycling is not practicable, dispose of waste according to applicable legislation.

Packaging

Recommendation:

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR:

Not applicable

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

Not applicable

14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

Not applicable

14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

Not applicable

14.5 Environmental hazards

Marine pollutant:

Not applicable

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EPDM Granulate from recycling black

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14.6 Special precautions for user

The product is not classified as dangerous according to transport regulations.
All components are physically bound in the polymer and do not pose a hazard under the recommended conditions of use.

14.7 Transport in bulk according to Annex II of Marpol and the IBC

No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This product falls within the scope of Annex XVII to Regulation (EC) No 1907/2006 (REACH), Entry 78 – Microplastics.

The restriction does not apply to this product, as it is supplied exclusively for professional use, in accordance with the conditions set out in Entry 78.

Professional users are provided with instructions on how to safely install, use and handle the product to prevent the release of microplastics into the environment.

15.2 Chemical Safety Assessment

A chemical safety assessment is not required.

SECTION 16: Other information

The information contained herein is based on current knowledge, experience and available information. This product safety sheet is designed only to provide information in the field of health, safety and the environment and has only informative purpose. It is not product specification.

The granulates are articles according to the definition of an article under the Regulation No 1907/2006/EC (REACH) and Safety Data Sheets (SDSs) for them are not required by law.

Date of issue: 12.05.2019

Date of update: 28.05.2026

Version: 5.0/EN

unirubber	FORMULARZ	F-W5-05	Strona 1 z 1
	Karta techniczna granulatu Technical Data Sheet	Wydanie 1	Data wydania: 09.10.2023

Techniczny EPDM Czarny Technical EPDM Black		Wydanie Edition 4	Data aktualizacji Updated 19.10.2023
Typ materiału Type of material	Odpady na bazie kauczuków EPDM. Scrap based on EPDM rubber.		
Kolor Color	Czarny. Black.		
Fracja* Grain size*	0,5- 2,5mm		
Własności fizyczne i chemiczne: Physical and chemical properties:	Wartość Value	Jednostka Unit	Metoda badania wg normy Test method based on standard
Ciężar nasypowy Bulk density	~500	g/dm3	PN-EN ISO 60
Analiza sitowa: Sieve analysis:			
Granulki poniżej 0,5 mm Granules below 0,5 mm	Max 1,0	%	ISO-13322-2 / PN-ISO 2591-1
Granulki powyżej 2,5 mm Granules above 2,5 mm	Max 10,0	%	
Wtrącenia tkaniny, materiałów niegumowych i w kolorze odbiegającym (w tym aluminium) Textile, non-rubber and different coloured impurities (including aluminium	Max 1,0	%	
Pozostałe własności: Other:			
Kształt: Shape:	Mieszanka różnych kształtów, cząsteczki sześciokątne (kubiczne, heksagonalne). Mixture of different size, cubical particles		
Opakowanie Packaging	Worki wentylowe à 25 kg lub Big-Bag à 1 000 kg na drewnianych paletach o wymiarach 1 000 x 1 200 mm. PE valve sacks 25 kg each or big bags 1000 kg placed on a wooden pallet of dimension of 100x120cm.		

*Na życzenie Klienta możliwe jest wykonanie innej frakcji granulatu.

Wszystkie dane techniczne zawarte w tym dokumencie są oparte na bieżącej analizie średnich wartości produkowanych granulatów i przedstawione by pomóc

naszym Klientom w doborze odpowiedniego produktu do finalnego zastosowania. Firma Unirubber Sp. z o.o. nie ponosi odpowiedzialności za niesatysfakcjonujące wyniki przetwórstwa, ponieważ warunki procesów są poza naszą kontrolą.

*Other grain sizes on request.

All technical data shown in this specification are based on the current analysis of mean value of the produced granulates. And are intended to help our customers in the choice of final application of the granulates. Unirubber Sp. z o.o. does not bear responsibility for unsatisfactory results of processing as the processing conditions are beyond our control

Imię i nazwisko Name	Jagoda Biela	Stanowisko Position	Technolog Technologist	Data Date	19.10.2023
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