

Ecma/TC38-TG3/2015/026 (Rev. 1 – 15 April 2015)

Annex B2 - Product environmental attributes Computers and computer monitors

The declaration may be published only when all rows and/or fields marked with * are filled-in (n.a. for not applicable). Additional information regarding each item may be found under P15.

Brand *	HP	Logo
Company name *	HP	
Contact information *	HP Sustainability and Compliance Center	
e-mail address	sustainability@hp.com	
Internet site *	http://www.hp.com/hpinfo/globalcitizenship/environment/	
Additional information		

The company declares (based on product specification or test results based obtained from sample testing), that the product conforms to the statements given in this declaration.				
Type of product *	Display			
Commercial name *	HP P24h G4 23.8-inch Monitor			
Model number *	P24h G4			
Issue date *	11/1/2019			
Intended market *	🛛 Global 🔲 Europe 🗌 Asia, Pacific & Japan 🗌 Americas 🗌 Other			
Additional information				

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About Annex B2

Annex B2 reflects Product environmental attributes relevant for Computers and Computer Monitors. The following items from the ECMA-370 Main body are not shown in the template:

P4.1 – P4.3 Consumable materials

P9.1 TEC and Print speed

P10.2 - P10.3 Chemical emissions from printing products

P11.1 - P11.3 Consumable materials for printing products

Model n	umber *	P24h G4	Logo			
Issue date *		11/1/2019			7	
Dradus	4			Denvine		
Item	tenviron	mental attributes - Legal requirements		Require Yes	No	n.a.
P1	Hazardo	bus substances and preparations		Tes	INU	II.d.
P1.1*		to comply with current European RoHS Directive. (See legal reference and NOTE	= B1)			
P1.2*	Products do not contain Asbestos (see legal reference).				⊢	
1 1.2		t: Legal reference has no maximum concentration value.		\square		
P1.3*		o do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC),		\boxtimes		
		mofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrach		I-		
		ethane, methyl bromide (see legal reference). Comment: Legal reference has no mation values.	naximum			
P1.4*		do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polych	lorinated	\boxtimes		
	terpheny	(PCT) in preparations (see legal reference).				
P1.5*		do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carl	bon atoms i	n the 🔀		
D4 of		ntaining at least 48% per mass of chlorine in the SCCP (see legal reference).	- / 2/			
P1.6*		h direct and prolonged skin contact do not release nickel in concentrations above (al reference).),5 μg/cm²/v	veek 🔀		
	Comme	nt: Max limit in legal reference when tested according to EN1811:2011-5.				
P1.7*		Article 33 information about substances in articles is available at (add URL or mail	contact):	\boxtimes		
	http://www.hp.com/hpinfo/globalcitizenship/environment/productdata/reachdesktop-pcs.html					
P2	Batterie	S				
P2.1*	If the pro	duct contains a battery or an accumulator, the battery/accumulator is labeled with	the disposa			\square
		Information on proper disposal is provided in user manual. (See legal reference)				
P2.2*	Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal				\boxtimes	
P2.3*	Batteries	and accumulators are readily removable. (See legal reference)				\boxtimes
P3		nity verification & Eco design (ErP)				
P3.1*	The proc	luct is CE-marked to show conformance with applicable legal requirements (see leg	gal referenc	e). 🔀		
		laration of Conformity can be requested at (add link or e-mail address):				
		w8.hp.com/uk/en/certifications/technical/regulations-certificates.html sustainabil	ity@hp.co	om		
P3.2*		duct complies with the Eco design requirements for energy-related products,		\bowtie		
	· •	al reference). d information is;				
	Required					
DE	Droduot	available at (add URL):				
P5.1*		packaging ng and packaging components do not contain more than 0,01% lead, mercur	v cadmium	and 🔀		
		ent chromium by weight of these together.	,			
P5.2*	The pac	kaging materials are marked with abbreviations and numbers indicating the nature e legal reference).	of the mate	rial(s) 🔀		
P5.3*		luct packaging material is free from ozone depleting substances as specified in the N	Montreal Pro	otocol 🔀		
	(see leg	al reference).				
		nt: Legal reference has no maximum concentration values.				
P6		nt information				
P6.1*	Informat	ion for recyclers/treatment facilities is available (see legal reference).		\bowtie		

NOTE B1 Restriction applies to the homogeneous material, unless other specified and expressed in weight %. Stating "Yes" means that the product is compliant with the mandatory requirements.

Model n	umber *	P24h G4 Logo			
Issue date *		11/1/2019	4	9	
Product	- Enviro		equire	ment	met
Item		ory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.
P7	Design Disasse	mbly, recycling			
P7.1*	Parts that	t have to be treated separately are easily separable	\boxtimes		
P7.2*	Plastic m	aterials in covers/housing have no surface coating.	\boxtimes		
P7.3*	Plastic pa	arts > 100 g consist of one material or of easily separable materials.	\boxtimes		
P7.4*	Plastic pa	arts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.	\boxtimes		
P7.5	Plastic pa	arts are free from metal inlays or have inlays that can be removed with commonly available tools.			
P7.6*	Labels a	re easily separable. (This requirement does not apply to safety/regulatory labels).		Ē	Ē
	Product	lifetime			
P7.7*	Upgradin	g can be done e.g. with processor, memory, cards or drives			\square
P7.8*	Upgradin	g can be done using commonly available tools			
P7.9	Spare pa	Ints are available after end of production for: 5 years			Ē
P7.10		s available after end of production for: 5 years			Ē
		and substance requirements			
P7.11*		cover/housing material type (e.g. plastics, metal, aluminum):			
		type: >ABS(REC35)< Material type: >PS< Material type:			
P7.12		n materials of external electrical cables are PVC free.		\square	
P7.13		n materials of internal electrical cables are PVC free.	\square		
P7.14	weight (1 polyvinyl	plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 0,1% 000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, and chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in parts containing n 25% post-consumer recycled content.			
P7.15	Printed c	ircuit boards, PCBs (without components) are low halogen: all \square PCBs > 25 g \boxtimes are low halogen in IEC 61249-2-21. (See 1NOTE B2)	\square		
P7.16	Flame re	tarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: >ABS(REC35)<, >PS-FR(40)<			
P7.17		emical specifications of flame retardants in printed circuit boards > 25 g (without components):			
	TBBPA (additive) , TBBPA (reactive) (See NOTE B3), Other; chemical name: , CAS #:			
		nemical specifications of flame retardants in printed circuit boards (without components) > 25 g g ISO 1043-4: <i>FR(40)</i>	\boxtimes		
P7.18	Alt 1 Fl	ame retarded plastic parts > 25 g contain the following flame retardant substances/preparations in			
17.10	concentr	ations above 0,1%:			
		cal name: , CAS #: (See NOTE B4)			
		carname: , CAS #:			
		cai fiame. , CAS #.		_	_
		<pre>iemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4: IEC35)<, >PS-FR(40)<</pre>	\boxtimes		
P7.19	In plastic	parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been		\square	
	assigned	the following Risk phrases; and Hazard statements:			
		ce(s) for these classifications is/are found at (add URL(s)): ha.europa.eu/web/guest/information-on-chemicals/cl-inventory-database (See note B5)			
P7.20*		sumer recycled plastic material content is used in the product (See Note B6):	\square		
	a) Oft	t least one of the two alternatives below shall be answered; otal plastic parts' weight > 25 g, the postconsumer recycled plastic material content (calculated as ercentage of total plastic by weight) is 27 % .			
	a pe Or	ruentage of total plastic by weight) is 21 %.			

GENERAL NOTE Standard references should direct to the latest version of a standard. If an older version of a standard is used, section P15 shall be used for explanation.

NOTE B3 and B4 A Guidance document on Chemical substances is available; see

http://www.ecma-international.org/publications/standards/Ecma-370.htm

NOTE B5: If a certain substance has been assigned a certain risk phrases / hazard statement in the referenced source, this does not necessarily mean the substance has been tested for all of the hazards referred to by a certain customer.

NOTE B6: Applies to a product containing plastic parts whose combined weight exceeds 100 g with the exception of printed circuit boards, cables, connectors and electronic components and bio-based plastic material. NOTE B7: Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard, criterion 4.2.1.1.

NOTE B2: IEC 61249-2-21 defines maximum limits of 900 ppm for each of the substances chlorine and bromine and a maximum limit of 1500ppm of these substances combined. The standard does not address fluorine, iodine and astatine which are included in the group of halogens.

|--|

Model number *	P24h G4	Logo	
Issue date *	11/1/2019		<u>np</u>

Product environmental attributes - Market requirements (continued) Item

Requirement met Yes No n.a.

	Material and sub	stance requirements	(continued)			
P7.21*			d in the product (See N	NOTE B7):		
	If YES; at least on	e of the two alternative	es below shall be answ	vered;		_
	a) Of total plasti	c parts' weight > 25 g			ated as a percentage of	
	total plastic b or	y weight) is %.				
		f the biobased plastic	material is g.			
P7.22*	Light sources are free from mercury, i.e. less than 0,1 mg/lamp.					
DO		specify: Number of la	mps: and maxin	num mercury content p	er lamp: mg	
P8.1*	Batteries Battery chemical of	composition:				
P9		tion (See NOTE B8)				
P9.1			ls or energy consumpt	ions are reported:		
Energy m		Power level at	Power level at	Power level at	Reference/Standard for energy	
Energy In		100 V AC	115 V AC	230 V AC	modes and test method *	
EPS No-I	oad	W	W	W	EPS Energy Report Data	\boxtimes
	power supply /					
	lugged in the wall					
the produ	disconnected from					
PTEC *		W	W	W	ENERGY STAR® Program	\boxtimes
	nergy Consumption				Requirements for Computer	
					Monitor: Ver. 7.0	
ETEC *		37.54 kWh/year	37.41 kWh/year	37.52 kWh/year	ENERGY STAR® Program	
Annual E	nergy Consumption				Requirements for Computer Monitor: Ver. 7.0	
External I	Power Supply Efficier	L ncv Level (Internation)	al Efficiency Marking P	rotocol) * :	ENERGY STAR® Program	\square
					Requirements for Computer	
					Monitor: Ver. 7.0	
Display re	esolution * : 1920*10	80 megapixels			ENERGY STAR® Program Requirements for Computer	
					Monitor: Ver. 7.0	
Default tir	me to enter energy sa	ave mode: min	utes		ENERGY STAR® Program	\boxtimes
					Requirements for Computer	
					Monitor: Ver. 7.0	
P9.2*			ion is provided with the	e product.		
P9.3	Energy efficiency of	class (monitors only):				
P10	Emissions					
<u></u>			o ISO 9296 (See NOT			
P10.1	Mode N	Node description		Statistical upper lim $L_{WA,c}$ (B)	it A-weighted sound power level,	
	Idle *			*		\square
	Operation *			*		
	Other mode					
	Measured accordi	ng to: 📃 ISO 7779	ECMA-74			
		Other	(only if not covered b	by ECMA-74)		

NOTE B7 The following is to be excluded from the calculation of percentage: printed circuit boards, labels, cables, connectors and electronic components and postconsumer recycled plastic

NOTE B8 A Guidance document on Energy Efficiency is available;

see http://www.ecma-international.org/publications/standards/Ecma-370.htm

NOTE B9 A Guidance document on Acoustic Noise is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

Model nu	nber *	P24h G4			Logo			
Issue date *		11/1/2019						
Product	environ	mental attributes	- Market requirements (con	ntinued)		Require	ment	met
Item						Yes	No	n.a.
		magnetic emission						
P10.4	program	n(s):	requirement for low frequency e	electromagnetic fields	of the following volunta	ry		
P12		mics for computing						
P12.1*			omic requirements of ISO 9241		-	\square		
P12.2*	The phy	sical input device m	eets the requirements of ISO 999	95 and ISO 9241-410).		\boxtimes	
P13	U	ing and documenta						
P13.1*	Product Product	packaging material packaging material	type(s): PAPER/Corrugated type(s): PLASTIC/Polystyrene type(s): PLASTIC/Polyethylene type(s): PLASTIC/Polyethylene	Expanded - EPE	weight (kg): 0.735 weight (kg): 0.326 weight (kg): 0.032 weight (kg): 0.008			
P13.2*			aging is free from PVC.	· · · ·	0 (0)	\boxtimes		
P13.3*		duct primary corrug er recovered fiber co	ated fiberboard packaging, spe ontent: 40 %	cify the contained po	ercentage of minimum			
P13.4*		media for user and ∣ ic, Paper ⊠, C	product documentation (tick box)	:				
P13.5	Ùser an		em if paper documentation used ation on paper media is chlorine					
	Totally o	chlorine-free				\boxtimes		
		tal chlorine-free						
	Process	ed chlorine-free						
P14	Volunta	ry programs						
P14.1			rements of the following volunta	ry program(s):				
		Y STAR® el: <i>EPEAT</i> el:	Criteria version: <i>8.0</i> Criteria version: <i>IEEE 1680.1</i> Criteria version:	Date: 11/1/2019 Date: 11/1/2019 Date:	Product category: Con Product category: Con Product category:	nmercial Disp nmercial Disp	lays lays	
P15	Additio	nal information (Se	e NOTE B10)					
All Sections	Change declara	es to external stand tion over	information contained in this clarks referenced in the IT Eco-	Declaration may inv				
P1	1. This	product does not i	nclude DEHP, BBP, DIBP, or D	BP.				

NOTE B10 Additional lines may be inserted to declare further items, by positioning the cursor at the far right of the row and hitting the <Enter> key.

Product Upgradability and Reparability

P7

The following table is provided in accordance with IEEE 1680.1-2018⁶ criterion 4.4.2.5.

feature	Available [1]	Repairable [2]	Replaceable [3]	Upgradeable [4]
processor	NO	N/A	N/A	N/A
main memory	NO	N/A	N/A	N/A
mass storage (internal)	NO	N/A	N/A	N/A
wireless networking	NO	N/A	N/A	N/A
integrated graphics	NO	N/A	N/A	N/A
discrete graphics	NO	N/A	N/A	N/A
display panel	YES	YES	YES	NO
integrated keyboard	NO	N/A	N/A	N/A
batteries	YES	YES	YES	NO
power supply	YES	YES	YES	NO
fan assemblies	YES	YES	YES	NO
speaker(s) (internal)	NO	N/A	N/A	N/A
camera	NO	N/A	N/A	N/A
touchpad	NO	N/A	N/A	N/A
I/O connectors and external power connector	YES	YES	YES	NO
readers [5]	NO	N/A	N/A	N/A

Table notes:

[1] Y* = feature is available, but may not be included in every configuration

[2] Product can be repaired (returned to fully functional state) if feature fails.

[3] Feature can be replaced using only commonly available tools without soldering or de-soldering. Y* = replacement may require replacing an assembly to which the feature is attached.

[4] Base feature may be upgraded by replacing it with a higher performance module or by expanding capacity through use of expansion slots. NOTE: This evaluation does not

account for situations in which the initial configuration purchased is already maximized. Contact HP Sales or an HP authorized reseller to determine the availability of upgrade parts and method to obtain them in your geography.

[5] This feature category includes readers such as fingerprint readers, smart card readers, and other read-only devices, but excludes read/write devices.

1. European Union Commission Regulation 1 Mode / Condition	Power Consumption in Watts at 230 VAC Input	Default Time to Mode / Condit
Mode / Condition	Voltage	(if applicable)
Off Mode (if applicable)	0.14 W	Not Applicable
Standby Mode (if applicable)	Not Applicable	Not Applicable
Network Standby / Sleep / Long Idle Mode if all wired network ports are connected and all wireless network ports are activated (if applicable)	0.20 W	Not Applicable
Network Standby / Sleep / Long Idle Mode (if applicable)	0.20 W	Not Applicable
2.European Union Commission Regulation 1275	/2008- Wireless Network Instructions:	

⁶ IEEE Standard for Environmental and Social Responsibility Assessment of Computers and Displays

Legal references Europe Annex B2

Reference	Declaration item
Directive 2011/65/EU (RoHS Directive) * * Specific exemptions apply for certain products and applications.	P1.1
Regulation (EC) 1907/2006(REACH, Annex XVII	P1.2, P1.4, P1.6, P1.7
Regulation (EC) 2037/2000, 2038/2000, 2039/2000 (Marketing and use of Ozone layer depleting substances)	P1.3, P5.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
Directive 2013/56/EC (Battery and accumulators Directive) * * These provisions shall not apply where, for safety, performance, medical or data integrity reasons, continuity of power supply is necessary and requires a permanent connection between the appliance and the battery or accumulator.	P2.1, P2.2, P2,3, P8.1
Directive 2006/95/EC (Low Voltage Directive)	P3.1
Directive 2004/108/EC (EMC Directive)	P3.1
Directive 1999/5/EC (R&TTE Directive)	P3.1
Regulation (EC) 801/2013 amending Regulation (EC) No 1275/2008 with regard to ecodesign requirements for standby, off mode electric power consumption of electrical and electronic household and office equipment, and amending Regulation (EC) No 642/2009 with regard to ecodesign requirements for televisions	P3.1, P3.2
Regulation (EC) No 1272/2008 (CLP Regulation)	P7.19
Directive 2004/12/EC (Packaging Directive)	P5.1
Decision 97/129/EC (Secondary packaging legislation)	P5.2
Directive 2012/19/EU (WEEE directive)	P6.1



Ecma/TC38-TG3/2015/024

Company environmental profile - THE ECO DECLARATION

Brand	HP	Logo		
Company name *	HP			
Contact information *	HP Sustainability and Compliance Center (SCC)			
	sustainability@hp.com			
Internet site *	www.hp.com/hpinfo/globalcitizenship/environment/index.html			
Issue date *	2014-06-01			
Intended market *	🛛 Global 🔲 Europe 🔲 Asia, Pacific & Japan 🔛 Americas 📃 Other			
Additional information				

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y environmental profile - Legal requirements	Requirement met		
	Yes	No	n.a.
Product recycling			
The company participates in a system or has its own system for collection and recycling of end of life product in countries where the company puts them on the market and where required (see legal reference)	s 🔀		
Battery recycling			
Packaging recycling			
The company participates in a system or has its own system for collection and recycling of packaging materia in countries where the company puts products on the market and where required (see legal reference)	al 🔀		
v anvironmental profile - Market requirements	Poquiror	nont r	not
y environmental prome - market requirements			
Environmental policy and environmental management	res	INO	n.a.
	_	_	
	\bowtie		
	\square		
If so certified according to: 🔀 ISO 14001 🔀 Other as specified in C7	_	_	
The company regularly publishes an environmental report.			
Information about the product, battery & packaging take back system (C1, C2 and C3) is available in printe	d 🔀		
The company meets the requirements of the following voluntary program/s:			
Voluntary Agreement: Criteria version: Date: Product category:			
Imaging Products and Related Operations) and for product design for its Personal Systems Product Enterprise Printing Products. The product design certifications include HP-wide product environm processes (such as HP's General Specification for the Environment) that cover all HP products. HP is committed to responsible business practices and transparency in its global citizenship policie We have a long history of working with suppliers to monitor and improve their social and environme (SER) performance when required, as well as improving standards in the industry. HP endorses the Conduct in its entirety, and we have supplemented it with additional requirements specific to freedo well as HP's Student and Dispatch Worker Guidance Standard for Supplier Facilities in the People's (PRC). HP also has a strong Global Human Rights Policy in place. HP expects its suppliers to estable processes regarding conflict minerals. HP conducts due diligence on its supply chain annually inclu- information about our suppliers' own due diligence and the smelters and refiners used. HP was the publish its supply chain smelter list. HP follows the Global Reporting Initiative (GRI) guidelines as a The GRI index provides easy reference to HP's Living Progress Report (LPR) content. HP offers take	ts and La ental des ental resp ental resp EICC Coo om of ass Republic ish polici uding req first IT c basis for e back se	serJet ign orforma oonsib de of ociatic of Ch ies and uestin ompar repor rvices	and ince. ility ina g y to ting. of
	Product recycling The company participates in a system or has its own system for collection and recycling of end of life product in countries where the company puts them on the market and where required (see legal reference) Battery recycling The company participates in a system or has its own system for collection and recycling of batteries in countries where the company puts products on the market (see legal reference) or pays eco tax / fee where required. Packaging recycling The company participates in a system or has its own system for collection and recycling of packaging materia in countries where the company puts products on the market and where required (see legal reference) y environmental policy and environmental management The company has a documented environmental policy approved by the management. The company has a documented environmental report. If so certified according to: [] ISO 14001 [] Other as specified in C7 The company regularly publishes an environmental report. If so, it meets the recommentations of [] The Global Reporting Initiative [] Other as specified in C7 Recycling Information about the product, battery & packaging take back system (C1, C2 and C3) is available in printer or electronic format. Voluntary Agreement: Criteria version: Date: Product category: Voluntary Agreement: Criteria version: Date: Product category: Voluntary A	Product recycling Yes The company participates in a system or has its own system for collection and recycling of end of life products in countries where the company puts them on the market and where required (see legal reference) Image: Colling C	Yes No Product recycling The company participates in a system or has its own system for collection and recycling of end of life products in countries where the company puts them on the market and where required (see legal reference) Image: Company participates in a system or has its own system for collection and recycling of batteries in countries where the company puts products on the market (see legal reference) or pays eco tax / fee where required. Packaging recycling The company participates in a system or has its own system for collection and recycling of packaging material in countries where the company puts products on the market and where required (see legal reference) Yenvironmental policy and environmental management Yes The company has an environmental management system covering: Yes Product development Imanagement system covering: Product development Imanagement required descored and system covering: Product development Imanagement system covering: Precycling Imanagement system

Legal references Europe Annex A

Reference	Declaration item	
Directive 2012/19/EU (WEEE directive)	C1.1	
Directive 2006/66/EC (Battery and accumulators Directive) * * These provisions shall not apply where, for safety, performance, medical or data integrity reasons, continuity of power supply is necessary and requires a permanent connection between the appliance and the battery or accumulator.	C2.1	
Directive 2004/12/EC (Packaging Directive)	C3.1	
Decision 97/129/EC (Secondary packaging legislation)	C3.1	