



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	1	
e-mail address	sustainability@hp.com		
Internet site *	http://www.hp.com/hpinfo/globalcitizenship/environment/		
Additional information			

The company declares (The company declares (based on product specification or test results based obtained from sample testing), that the product				
conforms to the statemer	nts given in this declaration.				
Type of product *	Notebook PC				
Commercial name *	HP Elite c640 G3 Chromebook ENERGY STAR				
Model number *	C460 G3				
Issue date *	29/04/2022				
Intended market *	☐ Global ☐ Europe ☐ Asia, Pacific & Japan ☐ Americas ☐ Other				
Additional information					

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

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 number *	C460 G3	Logo	
Issue date *	29/04/2022		

Product	Product environmental attributes - Legal requirements					
Item	2 1	Yes	No	n.a.		
P1	Hazardous substances and preparations					
P1.1*	Products do comply with current European RoHS Directive. (See legal reference and NOTE B1)	\boxtimes				
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.					
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values.					
P1.4*	Products do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated terphenyl (PCT) in preparations (see legal reference).					
P1.5*	Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the chain containing at least 48% per mass of chlorine in the SCCP (see legal reference).	e 🔀				
P1.6*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 µg/cm²/weel (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:2011-5.	(
P1.7*	REACH Article 33 information about substances in articles is available at (add URL or mail contact): http://www.hp.com/hpinfo/globalcitizenship/environment/productdata/reachdesktop-pcs.html					
P2	Batteries					
P2.1*	If the product contains a battery or an accumulator, the battery/accumulator is labeled with the disposal symbol. 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 reference)					
P2.3*	Batteries and accumulators are readily removable. (See legal reference)	\boxtimes				
P3	Conformity verification & Eco design (ErP)					
P3.1*	The product is CE-marked to show conformance with applicable legal requirements (see legal reference). The Declaration of Conformity can be requested at (add link or e-mail address):					
	http://www8.hp.com/uk/en/certifications/technical/regulations-certificates.html sustainability@hp.com					
P3.2*	The product complies with the Eco design requirements for energy-related products, (see legal reference).					
	Required information is; given in item P15 or added to this document,	\boxtimes				
	available at (add URL):					
P5	Product packaging					
P5.1*	Packaging and packaging components do not contain more than 0,01% lead, mercury, cadmium ar hexavalent chromium by weight of these together.	nd 🔀				
P5.2*	The packaging materials are marked with abbreviations and numbers indicating the nature of the material(used (see legal reference).	s) 🔀				
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protoc (see legal reference).	ol 🔀				
	Comment: Legal reference has no maximum concentration values.					
P6	Treatment information					
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	\boxtimes				

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 number *	C460 G3	Logo	15
Issue date *	29/04/2022		

Issue date * 29/04/2022		29/04/2022	<u> </u>		
Product		mental attributes - Market requirements (See General NOTE GN below)	Doguiro	mont	mat
It a ma		onmental conscious design	Require		
Item P7		tory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.
F1		mbly, recycling			
P7.1*	Parts tha	at have to be treated separately are easily separable			
P7.2*	Plastic m	naterials in covers/housing have no surface coating.			
P7.3*	Plastic p	arts > 100 g consist of one material or of easily separable materials.			
P7.4*	Plastic p	arts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.	\boxtimes		
P7.5	Plastic p	arts are free from metal inlays or have inlays that can be removed with commonly available tools.	\boxtimes		
P7.6*	Labels a	re easily separable. (This requirement does not apply to safety/regulatory labels).	$\overline{\boxtimes}$		
	Product	lifetime			
P7.7*	Upgradir	ng can be done e.g. with processor, memory, cards or drives	\square		
P7.8*	Upgradir	ng can be done using commonly available tools			
P7.9	Spare pa	arts are available after end of production for: 5 years			
P7.10	Service i	is available after end of production for: 5 years			
	Material	and substance requirements			
P7.11*	Product	cover/housing material type (e.g. plastics, metal, aluminum):			
		type: aluminium Material type: steel Material type: magne	sium		
P7.12	Insulatio	n materials of external electrical cables are PVC free.		\boxtimes	
P7.13		n materials of internal electrical cables are PVC free.	\boxtimes		
P7.14	weight (polyvinyl	plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 0,1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, all chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in parts containing an 25% post-consumer recycled content.	and		
P7.15		circuit boards, PCBs (without components) are low halogen: all 🔲 PCBs > 25 g 🔀 are low halog	gen 🔀		
	as define	ed in IEC 61249-2-21. (See 1NOTE B2)			
P7.16		etarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: : >PC+ABS-(TD+MD)15FR(40)<			
P7.17	Alt. 1: Ch	nemical specifications of flame retardants in printed circuit boards > 25 g (without components):			
	TBBPA ((additive) , TBBPA (reactive) (See NOTE B3), Other; chemical name: , CAS #:	\boxtimes		
		nemical specifications of flame retardants in printed circuit boards (without components) > 25 g			
		g ISO 1043-4: <i>FR(40)</i>			
P7.18	concentr 1. Chem 2. Chem	lame retarded plastic parts > 25 g contain the following flame retardant substances/preparations rations above 0,1%: ical name: , CAS #: (See NOTE B4) ical name: , CAS #: " ical name: , CAS #: "	in		
	Alt. 2: Ch	nemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4: : >PC+AE	SS-		
P7.19		b)15FR(40)< b colspan="2">parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been		$\overline{}$	
. 7.15	assigned	the following Risk phrases; R53 and Hazard statements: H413 May cause long-			
		g effects to aquatic life			
		rce(s) for these classifications is/are found at (add URL(s)):			
P7.20*		cha.europa.eu/web/guest/information-on-chemicals/cl-inventory-database (See note B5) sumer recycled plastic material content is used in the product (See Note B6):			
1 7.20				Ш	
	If YES: a	at least one of the two alternatives below shall be answered:			

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.

Of total plastic parts' weight > 25 g, the postconsumer recycled plastic material content (calculated as

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.

NOTE B3 and B4 A Guidance document on Chemical substances is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

a percentage of total plastic by weight) is 5.2%.

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.

	or b) The	weight of	recycled material is	g.				
Model n	umber *	435 G9				Logo		
Issue da	ite *	29/04/202	22				WP)	
Produc	t environn	nental at	tributes - Market ı	equirements (conti	inued)		Requiremen	nt met
Item				,	,		Yes No	n.a.
			tance requirements					
P7.21*	Biobase	d plastic m	aterial content is use	d in the product (See N	IOTE B7):			
	 If YES; at least one of the two alternatives below shall be answered; a) Of total plastic parts' weight > 25 g, the biobased plastic material content (calculated as a percentage of total plastic by weight) is %. or 							
P7.22*			the biobased plastic ree from mercury, i.e.	less than 0,1 mg/lamp				
		,	specify: Number of la	mps: and maxim	num mercury content pe	er lamp: 0 mg		
P8.1*	Batterie Battery o		omposition: <i>lithium i</i>	<u> </u>				
P9			tion (See NOTE B8)	ori,				
P9.1				ls or energy consumpti	ons are reported:			
Energy n			Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference/St modes and te	andard for energy est method *	
EPS No-	load		21 mW	25.8 mW	36 mW	EPS Energy Report Data		
charger poutlet but the produ	I power sup plugged in th t disconnect uct.)	ne wall						
PTEC * Typical E	Energy Cons	sumption	W	W	W		STAR® Program ts for Computers	
ETEC * Annual E	Energy Cons	sumption	19.85 kWh/year	19.70 kWh/year	19.91 kWh/year		AR® Program ts for Computers	
External	Power Supp	oly Efficien	cy Level (Internationa	al Efficiency Marking Pr	rotocol) *:		AR® Program ts for Computers	
Display r	esolution *	: 1920*108	80 megapixels				AR® Program ts for Computers	
Default ti	Default time to enter energy save mode: minutes ENERGY STAR® Program Requirements for Computers							
P9.2* Information about the energy save function is provided with the product.								
P9.3	Energy 6	efficiency c	lass (monitors only):					\boxtimes
P10	Emissio	ns						
				o ISO 9296 (See NOTE				
P10.1	Mode	N	lode description		Statistical upper lim	it A-weighted so	ound power level,	
	Idle	*	Fans on, HDD spini	ning (if applicable)	* 2.6			
	Operation		Fans on, HDD spini	ning	* 3.9			
	Other me							
	Measure	ad accordin	ng to: 🔀 ISO 7779 🕽	FCMA-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

(only if not covered by ECMA-74)

NOTE B8 A Guidance document on Energy Efficiency is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

Other

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

Model number *		C460 G3				Logo			
Issue date *		29/04/2022					Щ		
Product 6	environn	nental attributes	- Market requirements (con	itinued)		R	equire	ment	met
Item							Yes	No	n.a.
		nagnetic emission							
P10.4	program((s):	requirement for low frequency el	ectromagnetic fields	of the follo	owing voluntary		Ш	Ш
P12		nics for computing							
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.								
P12.2*			eets the requirements of ISO 999	95 and ISO 9241-410).			\boxtimes	
P13		ng and documenta							
P13.1*				weight (kg): 0.261					
				weight (kg): 0.139 weight (kg): 0.003					
			type(s): PLASTIC/polyethylene I		weight (kg	i): 0.014			
P13.2*			aging is free from PVC.			,,,	\boxtimes		
P13.3*	For prod	uct primary corrug	ated fiberboard packaging, spec	cify the contained pe	ercentage	of minimum post-			Ħ
	consume	er recovered fiber co	ontent: 57%		_				
P13.4*	Specify r	nedia for user and i	product documentation (tick box):						
		c 🔲, Paper 🔲, C							
P13.5			em if paper documentation used)				_		
			ation on paper media is chlorine-l	free:			\bowtie		
	If Yes, pl	ease specify:							
	•	nlorine-free					\boxtimes		
		al chlorine-free							
	Processe	ed chlorine-free							
P14	Voluntar	y programs							
P14.1			irements of the following voluntary	y program(s):					
		·	J .	,, ,					
	_	/ STAR®	Criteria version: 8.0	Date: 29/04/2022		category: commerc			
	Eco-labe	I: EPEAT	Criteria version: <i>IEEE 1680.1</i> Criteria version: <i>9.0</i>	Date: 29/04/2022 Date: 29/04/2022		category: commerc category: commerc			
D4E				Date. 23/04/2022	i ioduct c	Sategory. Commerc	iai iiole	- COUN	
P15 All		al information (Se	e NOTE B10) information contained in this d	oclaration is valid a	of the o	lata the declaration	n ie nuh	licho	-J
Sections			lards referenced in the IT Eco-L						
	declarat								
P1	1. This product does not include DEHP, BBP, DIBP, or DBP.								

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.

P7 Product Upgradability and Reparability The following table is provided in accordance with IEEE 1680.1-2018⁶ criterion 4.4.2.5. Available Repairable Replaceable Upgradeable feature [1] [2] [3] [4] processor Υ Ν main memory Υ Υ Υ mass storage (internal) Υ Υ Υ wireless networking Υ Υ Ν integrated graphics Υ* Ν discrete graphics Ν N/A N/A N/A display panel Ν N/A N/A N/A integrated keyboard Υ Ν Υ batteries Υ Ν power supply Ν N/A N/A N/A fan assemblies Υ Υ Ν speaker(s) (internal) Υ Υ Ν camera Ν touchpad Ν I/O connectors and external Υ Υ Υ Ν power connector readers [5] Υ Ν Table notes: $\boxed{1}$ 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 P9 Energy consumption of computer products; description of the tested product configuration: P9 1. European Union Commission Regulation 1275/2008- Energy Efficiency Information: Mode / Condition Default Time to Mode / Conditi Power Consumption in Watts at 230 VAC Input Voltage (if applicable) Off Mode (if applicable) 0.31 w Not Applicable Standby Mode (if applicable) Not Applicable Not Applicable Network Standby / Sleep / Long Idle Mode if 0.50 10 min all wired network ports are connected and all wireless network ports are activated (if applicable) Network Standby / Sleep / Long Idle Mode (if 2.84 w 10 min applicable) 2.European Union Commission Regulation 1275/2008- Wireless Network Instructions: Where applicable, activate and deactivate a wireless network using the instructions provided in the product user guide or the operating system. Information is also available at www.hp.com/support. P10 **Sound Pressure Level** Noise emission - Declared according to ISO 9296 (See NOTE B9) P10.1 Mode Statistical upper limit A-weighted sound pressure level, Mode description $L_{\rho A,m}$ (dB) Idle Fans on, HDD spinning (if applicable) 14.4 Fans on, HDD spinning 32.1 Operation Other mode Measured according to: ☐ ISO 7779 ☐ ECMA-74 Other (only if not covered by ECMA-74)

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	np)	
Internet site *	vww.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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Compan	y environmental profile - Legal requirements	Requiren	nent r	net		
Item		Yes	No	n.a.		
C1	Product recycling					
C1.1*	The company participates in a system or has its own system for collection and recycling of end of life produc	ts 🔀				
60	in countries where the company puts them on the market and where required (see legal reference)					
C2 C2.1*	Battery recycling The company participates in a gystem or has its own system for collection and recycling of batteries in					
C2.1	The company participates in a system or has its own system for collection and recycling of batteries countries where the company puts products on the market (see legal reference) or pays eco tax / fee whe					
	required.	16				
C3	Packaging recycling					
C3.1*	The company participates in a system or has its own system for collection and recycling of packaging mater	ial 🔀				
	in countries where the company puts products on the market and where required (see legal reference)		ш			
Compan	y environmental profile - Market requirements	Requiren	nent r	net		
Item		Yes	No	n.a.		
C4	Environmental policy and environmental management					
C4.1*	The company has a documented environmental policy approved by the management.	\boxtimes				
C4.2*	The company has an environmental management system covering:					
	Product development	\boxtimes				
	Manufacturing	\boxtimes				
	If so certified according to: 🔀 ISO 14001 🔀 Other as specified in C7	_	_			
C4.3	The company regularly publishes an environmental report.	X				
	If so, it meets the recommendations of The Global Reporting Initiative Dother as specified in C7					
C5	Recycling					
C5.1*	Information about the product, battery & packaging take back system (C1, C2 and C3) is available in print	ed 🔀				
	or electronic format.					
C6	Voluntary programs					
C6.1	The company meets the requirements of the following voluntary program/s:					
	Voluntary Agreement: Criteria version: Date: Product category:					
	Voluntary Agreement: Criteria version: Date: Product category:					
C7	Additional information					
<u> </u>	HP has received ISO 14001 certification for its manufacturing operations (Worldwide Manufacturing	a of Comp	utina a	and		
	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 environment	nental des	ign			
	processes (such as HP's General Specification for the Environment) that cover all HP products.					
	UD to accomplish the second state of the second sec					
	HP is committed to responsible business practices and transparency in its global citizenship polic. We have a long history of working with suppliers to monitor and improve their social and environm					
	(SER) performance when required, as well as improving standards in the industry. HP endorses the			шц		
	Conduct in its entirety, and we have supplemented it with additional requirements specific to freedom of association as					
	well as HP's Student and Dispatch Worker Guidance Standard for Supplier Facilities in the People's Republic of China					
	(PRC). HP also has a strong Global Human Rights Policy in place. HP expects its suppliers to establish policies and					
	processes regarding conflict minerals. HP conducts due diligence on its supply chain annually including requesting					
	information about our suppliers' own due diligence and the smelters and refiners used. HP was the first IT company to publish its supply chain smelter list. HP follows the Global Reporting Initiative (GRI) guidelines as a basis for reporting.					
	The GRI index provides easy reference to HP's Living Progress Report (LPR) content. HP offers take	1 Dasis foi	rrepor	ung. of		
	products and printing suppliers in some 70 countries. Please refer to HP's Livings Progress Repor					
	our global efforts.		Journ			

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