

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 *	Notebook PC			
Commercial name *	HP EliteBook 846 G5 Notebook PC			
Model number *	846 G5			
Issue date *	2/7/2018			
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 n	umber *	846 G5 Logo						
Issue da	ate *	2/7/2018		9				
Produc	t environ	mental attributes - Legal requirements R	equire	ment	met			
Item			Yes	No	n.a.			
P1		bus substances and preparations						
P1.1*		do comply with current European RoHS Directive. (See legal reference and NOTE B1)						
P1.2*	Commer	o do not contain Asbestos (see legal reference). nt: Legal reference has no maximum concentration value.	$\square$					
P1.3*	hydrobro trichloro	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 terpheny	$\square$						
P1.5*	chain co	to do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the ntaining at least 48% per mass of chlorine in the SCCP (see legal reference).	$\square$					
P1.6*	(see lega	h direct and prolonged skin contact do not release nickel in concentrations above 0,5 μg/cm²/week al reference). ht: Max limit in legal reference when tested according to EN1811:2011-5.	$\square$					
P1.7*	REACH	Article 33 information about substances in articles is available at (add URL or mail contact):	$\square$					
	http://ww	w.hp.com/hpinfo/globalcitizenship/environment/productdata/reachdesktop-pcs.html						
P2	Batterie	S						
P2.1*	symbol.	oduct contains a battery or an accumulator, the battery/accumulator is labeled with the disposal Information on proper disposal is provided in user manual. (See legal reference)	$\square$					
P2.2*	referenc		$\square$					
P2.3*	Batteries	and accumulators are readily removable. (See legal reference)	$\boxtimes$					
P3	Conform	nity verification & Eco design (ErP)						
P3.1*	The Dec	duct is CE-marked to show conformance with applicable legal requirements (see legal reference). Iaration of Conformity can be requested at (add link or e-mail address):	$\square$					
		w8.hp.com/uk/en/certifications/technical/regulations-certificates.html sustainability@hp.com						
P3.2*		luct complies with the Eco design requirements for energy-related products, al reference).						
	Required	d information is; available at (add URL):	$\square$					
P5	Product	packaging						
P5.1*	Packagii	ing and packaging components do not contain more than 0,01% lead, mercury, cadmium and ant chromium by weight of these together.						
P5.2*	The pac	kaging materials are marked with abbreviations and numbers indicating the nature of the material(s) le legal reference).	$\boxtimes$					
P5.3*	(see lega	luct packaging material is free from ozone depleting substances as specified in the Montreal Protocol al reference). ht: Legal reference has no maximum concentration values.	$\square$					
P6		nt information						
P6.1*		ion for recyclers/treatment facilities is available (see legal reference).	$\square$					
		· · · · · · · · · · · · · · · · · · ·						

Model number *	846 G5	Logo	

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.

Issue da	e * 2/7/2018			D	
Product	environmental attributes - Market re - Environmental conscious design	equirements (See General NOTE GN bel	low) Require	ement	met
Item	*=mandatory to fill in. Additional information	n regarding each item may be found under P14.	Yes	No	n.a.
P7	Design				
	Disassembly, recycling				
P7.1*	Parts that have to be treated separately an		<u>×</u> _		<u> </u>
P7.2*	Plastic materials in covers/housing have no		<u> </u>		
P7.3*	Plastic parts > 100 g consist of one materia				
P7.4*		ccording to ISO 11469 referring ISO 1043-4.			
P7.5	Plastic parts are free from metal inlays or h	have inlays that can be removed with commonly avail	lable tools.		
P7.6*	Labels are easily separable. (This requiren	nent does not apply to safety/regulatory labels).	$\square$		
	Product lifetime				
P7.7*	Upgrading can be done e.g. with processo	or, memory, cards or drives	$\square$		
P7.8*	Upgrading can be done using commonly a	vailable tools	$\square$		
P7.9	Spare parts are available after end of prod	luction for: 5 years			
P7.10	Service is available after end of production				
	Material and substance requirements				
P7.11*	Product cover/housing material type (e.g. p	plastics, metal, aluminum):			
		laterial type: Material ty	pe:		
P7.12	Insulation materials of external electrical ca				
P7.13	Insulation materials of internal electrical ca				
P7.14	weight (1000 ppm) chlorine attributable to	contain no more than 0,1% weight (1000 ppm) brom o brominated flame retardants, chlorinated flame re n) bromine and 0,3% weight (3000 ppm) chlorine in pa ontent.	tardants, and		
P7.15		ponents) are low halogen: all 🗌 PCBs > 25 g 🔀 are	e low halogen 🛛 🛛		
P7.16		ers / housings are marked according ISO 1043-4:			
P7.17	Alt. 1: Chemical specifications of flame retained	ardants in printed circuit boards > 25 g (without comp	onents):		
			AS #:		
	Alt. 2: Chemical specifications of flame reta according ISO 1043-4: ISO 1043-4 (FR	ardants in printed circuit boards (without components (40) for DOPO), FR(40)	s) > 25 g		
P7.18	<u>Alt. 1:</u> Flame retarded plastic parts > 25 g concentrations above 0,1%:	contain the following flame retardant substances/pr	reparations in		
	1. Chemical name:, CAS #:2. Chemical name:, CAS #:3. Chemical name:, CAS #:	(See NOTE B4) "			
	<u>Alt. 2:</u> Chemical specifications of flame reta >PC-I-TD15FR(40)<, >PC+ABS-TD1	ardants in plastic parts > 25 g according ISO 1043-4: <i>5FR(40)&lt;</i>			
P7.19	In plastic parts > 25 g, flame retardant sub assigned the following Risk phrases; The source(s) for these classifications is/a	stances/preparations above 0,1% are used which ha and Hazard statements:	ve been		
		nation-on-chemicals/cl-inventory-database (See no	ote B5)		
P7.20*		intent is used in the product (See Note B6):			
	If YES; at least one of the two alternatives a) Of total plastic parts' weight > 25 g, th a percentage of total plastic by weigh or	he postconsumer recycled plastic material content (ca	alculated as		
	b) The weight of recycled material is	g.			

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 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 <a href="http://www.ecma-international.org/publications/standards/Ecma-370.htm">http://www.ecma-international.org/publications/standards/Ecma-370.htm</a>

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.

Model number *	846 G5	Logo	
Issue date *	2/7/2018		<b>42</b>

#### 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	OTE B7):					
		c parts' weight > 25 g	es below shall be answ the biobased plastic m		ated as a percentage of				
	or b) The weight o	f the highered plactic	motorial ia a						
P7.22*		f the biobased plastic free from mercurv. i.e.	material is g. less than 0,1 mg/lamp						
	If mercury is used	specify: Number of la		num mercury content p	er lamp: mg				
P8	Batteries								
P8.1*		composition: lithium/intion (See NOTE B8)	nanganese dioxide						
P9.1			ls or energy consumpti	ons are reported.					
				-	Defense of Chandend for energy				
Energy mo	ode "	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference/Standard for energy modes and test method *				
EPS No-Ic		W	W	W	EPS Energy Report Data	$\boxtimes$			
charger pl	oower supply / ugged in the wall disconnected from ct.)								
PTEC * Typical En	ergy Consumption	W	W	W	ENERGY STAR® Program Requirements for Computers: Ver. 6.1				
ETEC * Annual Energy Consumption		27.68 kWh/year	28.82 kWh/year	28.16 kWh/year	ENERGY STAR® Program Requirements for Computers: Ver. 6.1				
External P	ower Supply Efficie	ncy Level (Internationa	al Efficiency Marking Pr	otocol) * : VI	ENERGY STAR® Program Requirements for Computers: Ver. 6.1				
Display re	solution * : <b>3480*21</b>	60 megapixels			ENERGY STAR® Program Requirements for Computers: Ver. 6.1				
Default tim	ne to enter energy s	ave mode: minu	utes		ENERGY STAR® Program Requirements for Computers: Ver. 6.1				
P9.2*	Information about	the energy save funct	ion is provided with the	product.					
P9.3	Energy efficiency	class (monitors only):							
P10	Emissions								
			o ISO 9296 (See NOTE						
P10.1	I         Mode         Mode description         Statistical upper limit A-weighted sound power level,           L <sub>WA,c</sub> (B)         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L         L <td></td>								
	Idle *	Fans on, HDD spinn		* 2.5					
	Operation *	Fans on, HDD spinn	ning	* 2.9					
	Other mode								
	Measured accordi	ng to: 🔀 ISO 7779	ECMA-74						
	Other (only if not covered 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 <u>http://www.ecma-international.org/publications/standards/Ecma-370.htm</u>

Model num	Model number *		5						Logo				
Issue date	*	2/7/20	18										
Product e	environn	nental	attributes - Market	requiren	nents (con	tinu	ued)				Require	ment	met
Item											Yes	No	n.a.
			c emissions										
P10.4	Compute		y meets the requireme	ent for low	frequency el	ectr	omagnetic fields of t	the follo	wing vol	untary			
P12			computing products										
P12.1*		-	ts the ergonomic requi					chnologi	es.				
P12.2*			ut device meets the re-	quirement	s of ISO 999	5 ar	id ISO 9241-410.				$\square$		
P13			documentation	050/0				inde (lana)	0.557				
P13.1*	Product packaging material type(s):       PAPER/Corrugated       weight (kg):       0.557         Product packaging material type(s):       PLASTIC/Polyethylene Expanded - EPE       weight (kg):       0.066         Product packaging material type(s):       PLASTIC/Polyethylene low density - LDPE weight (kg):       0.015         Product packaging material type(s):       PLASTIC/Polypropylene - PP       weight (kg):       0.004												
P13.2*			primary packaging is fre								$\square$		
P13.3*			nary corrugated fiberb ered fiber content: 0 %		kaging, spec	cify t	he contained perce	entage o	of minim	um post	-		
P13.4*			or user and product doo Paper, Other	cumentatic	on (tick box):								
P13.5		d produc	nplete this item if pape et documentation on pa becify:										
	Totally cl Elementa Processe	al chlori	ne-free										
P14	Volunta	ry prog	rams										
P14.1	The proc	luct me	ets the requirements of	f the follow	ving voluntar	y pro	ogram(s):						
	ENERG Eco-labe Eco-labe	el: EPE/			1 EE 1680.1		te: 1/29/2018 Pro		tegory:		rcial Note rcial Note		
P15	Addition	nal info	mation (See NOTE B	10)									
P9			nption of computer pr										
All Sections		s to ext	ronmental informatio ernal standards refer er										
P1			does not include DE										
P9			ion Commission Reg	ulation 1							ma ta M		C a ra aliti
	wode /	Conditi	on		Power Consumption in Watts at 230 VAC Inpu Voltage			if applica	ime to Mo ble)	bae / I	Condit		
			plicable)		0.49 W			Not Applie					
			(if applicable)		Not Applicable			Not Applie	cable				
	Network Standby / Sleep / Long Idle Mode if all wired network ports are connected and all wireless network ports are activated (if applicable)			0.95 W 20 Mi			20 Min						
	Network Standby / Sleep / Long Idle Mode (if applicable)				2	20 Min							
	2.Europe	ean Unio	on Commission Regula	tion 1275/	2008- Wirele	ess	Network Instructions	S:					
			e, activate and deactive n. Information is also a					provided	in the pr	roduct us	er guide (	or the	
P10	Sound F	Pressur	e Level		-								
	1	nissior	- Declared according	to ISO 92	96 (See NO	TEE							
P10.1	Mode         Mode description         Statistical upper lin           LWA,c (B)         LWA,c (B)         LWA,c (B)				nit A-we	ighted so	ound pre	ssure lev	el,				

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.

[							
	Idle	* Fans on, HDD spinning (if applicable)	* 16				
	Operation	* Fans on, HDD spinning	* 16				
	Other mode						
	Measured according to: ISO 7779 ECMA-74 Other (only if not covered by ECMA-74)						

# 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		

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

The declaration may be published only when all rows and/or fields marked with an \* are filled-in (n.a. for not applicable). Additional information regarding each item may be found under C7.

Company	y environmental profile - Legal requirements	Requirement met			
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 in countries where the company puts them on the market and where required (see legal reference)	ts 🔀			
C2	Battery recycling				
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				
02	required.				
C3.1*	Packaging recycling				
03.1	The company participates in a system or has its own system for collection and recycling of packaging materi in countries where the company puts products on the market and where required (see legal reference)	al 🔀			
Compon	a environmental profile. Market requirements	Doguiror	nont n	+	
	y environmental profile - Market requirements	Requirer			
Item	Environmental valiance and an incomparial management	Yes	No	n.a.	
C4	Environmental policy and environmental management				
C4.1*	The company has a documented environmental policy approved by the management.	$\square$			
C4.2*	The company has an environmental management system covering:				
	Product development	$\square$			
	Manufacturing	$\square$			
	If so certified according to: 🔀 ISO 14001 🔀 Other as specified in C7				
C4.3	The company regularly publishes an environmental report.	$\boxtimes$			
	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 printe or electronic format.	ed 🔀			
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				
	HP has received ISO 14001 certification for its manufacturing operations (Worldwide Manufacturing 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 polici 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 Conduct in its entirety, and we have supplemented it with additional requirements specific to freed- 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 estab processes regarding conflict minerals. HP conducts due diligence on its supply chain annually incl 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 tak products and printing suppliers in some 70 countries. Please refer to HP's Livings Progress Report our global efforts.	ts and La nental des ental resp EICC Coo om of ass Republic uding req first IT c basis foi e back se	serJet ign rforma oonsibu de of ociatio of Ch ies and uestin ompan repor rvices	and ince. ility n as ina g y to ting. of	

# 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	