

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 *	Dynabook	Logo
Company name *	Dynabook Europe GmbH	
Contact information *	Stresemannallee 4b	• dynabook
e-mail address	41460 Neuss	a dynabook
	Germany	
Internet site *	http://emea.dynabook.com/generic/environmental-managemen	t/
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 Computer			
Commercial name *	dynabook Satellite Pro L50-G			
Model number *	PBS20E, PBS21E, PBS22E			
Issue date *	2020-April-30			
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 *	PBS20E, PBS21E, PBS22E	Logo	
Issue date *	2020-April-30		•• dynabook

Produc	t environmental attributes - Legal requirements F	Require	ment	met
ltem		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).	\boxtimes		
	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-	\boxtimes		
	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).	\boxtimes		
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).))		
P1.6*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 μg/cm ² /week (see legal reference).	\square		
P1.7*	Comment: Max limit in legal reference when tested according to EN1811:2011-5. REACH Article 33 information about substances in articles is available at (add URL or mail contact):			
P1.7	http://emea.dynabook.com/generic/environmental-management/			
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)	\boxtimes		
P2.2*	Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal reference)	\boxtimes		
P2.3*	Batteries and accumulators are readily removable. (See legal reference)		\square	
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://emea.dynabook.com/generic/product-conformity	\boxtimes		
P3.2*	The product complies with the Eco design requirements for energy-related products,	\boxtimes		
1 0.2	(see legal reference).			
	Required information is; given in item P15 or added to this document,	\bowtie		
	available at (add URL):	_		_
	http://emea.dynabook.com/generic/environmental-management/			
P5	Product packaging			
P5.1*	Packaging and packaging components do not contain more than 0,01% lead, mercury, cadmium and hexavalent chromium by weight of these together.	\boxtimes		
P5.2*	The packaging materials are marked with abbreviations and numbers indicating the nature of the material(s used (see legal reference).)	\boxtimes	
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference).	\boxtimes		
	Comment: Legal reference has no maximum concentration values.			
P6	Treatment information			
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	\square		

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 nu	umber *	PBS20E, PBS21E, PBS22E	Logo			
Issue date *		2020-April-30		•• dyr	abo	ok
Product		mental attributes - Market requirements (See General NOTE GN below onmental conscious design	v)	Require	ment	met
Item		tory to fill in. Additional information regarding each item may be found under P14.		Yes	No	n.a.
P7	Design					
D= 4 ±		mbly, recycling				
P7.1*		at have to be treated separately are easily separable			<u> </u>	<u> </u>
P7.2*		naterials in covers/housing have no surface coating.				
P7.3*	-	arts > 100 g consist of one material or of easily separable materials.		\square		
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 a	available tool	s. 🔀		
P7.6*	Labels a	re easily separable. (This requirement does not apply to safety/regulatory labels).		\boxtimes		
	Product	lifetime				
P7.7*	Upgradir	ng can be done e.g. with processor, memory, cards or drives		\boxtimes		
P7.8*	Upgradir	ng can be done using commonly available tools		\boxtimes		
P7.9.	Spare pa	arts are available after end of production for: 5 years				
P7.10	Service i	s available after end of production for: See P15				Π
	Material	and substance requirements				
P7.11*		cover/housing material type (e.g. plastics, metal, aluminum): type: <i>Plastic (PC+ABS)</i> Material type: Materia	al type:			
P7.12	Insulatio	n materials of external electrical cables are PVC free.			\boxtimes	
P7.13	Insulatio	n materials of internal electrical cables are PVC free.				
P7.14	weight (1 polyvinyl	plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) br 000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame re chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine ing more than 25% post-consumer recycled content.	etardants, an			
P7.15	Printed of	ircuit boards, PCBs (without components) are low halogen: all 🗌 PCBs > 25 g 🗌	are low		\boxtimes	
	halogen	as defined in IEC 61249-2-21. (See ⁵ NOTE B2)				
P7.16	Marking:			\boxtimes		
P7.17		nemical specifications of flame retardants in printed circuit boards > 25 g (without co additive) , TBBPA (reactive) (See NOTE B3), Other; chemical name: , CAS				
	<u>Alt. 2: C</u> ł	nemical specifications of flame retardants in printed circuit boards (without compone g ISO 1043-4: <i>FR(40)</i>				
P7.18	concentr 1. Chem 2. Chem	ame retarded plastic parts > 25 g contain the following flame retardant substances/ ations above 0,1%: ical name:, CAS #: (See NOTE B4) ical name: , CAS #: " ical name: , CAS #: "	preparations	in		
				\boxtimes		
P7.19	In plastic assigned	nemical specifications of flame retardants in plastic parts > 25 g according ISO 104: parts > 25 g, flame retardant substances/preparations above 0,1% are used which the following Risk phrases; and Hazard statements: ree(s) for these classifications is/are found at (add URL(s)): , (See				

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

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.

Item Yes Material and substance requirements (continued) P7.20* Prosconsumer recycled plastic material content is used in the product (See NOTE B6): X If YES; at least one of the two alternatives below shall be answered; a) Of total plastic parts' weight > 25 g, the postconsumer recycled plastic material content (calculated as a percentage of total plastic material is 62.85 g. P7.21* Biobased plastic material content is used in the product (See NOTE 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 %. b) The weight of recycled material is g. P7.21* Biobased plastic material is g. P7.22* Light sources are free from mercury, i.e. less than 0.1 mg/lamp. If mercury is used specify: Number of lamps: and maximum mercury content per lamp: mg P8 Batteries P3.1 For the product the following power levels or energy consumptions are reported: Energy mode * Power level at 115 V AC 200 V AC EPS No-load W W 0.0928 W EN 50563 EPS No-load W W 0.222 W ENERGY STAR® Program Requirements for Compute Ver	
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	'S
Annual Energy Consumption Requirements for Compute Version 7.1	'S
External Power Supply Efficiency Level (International Efficiency Marking Protocol) *: V/	
Display resolution * : 2.07(1920*1080) megapixels	
Default time to enter energy save mode: 10(Display sleep)/ 30(Computer sleep) minutes	
P9.2* Information about the energy save function is provided with the product.	
P9.3 Energy efficiency class (monitors only):	

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 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.

Model number *	PBS20E, PBS21E, PBS22E	Logo	
Issue date *	2020-April-30		•• dynabook

Product	t environmental	attributes - Market requirements (cor	ntinued)	R	equire		me
ltem					Yes	No	n.a
P10	Emissions						
		n – Declared according to ISO 9296 (See NO					
P10.1	Mode	Mode description	Declared A-weighte L _{pAm} (dB)	d sound pressure level,			
	Idle	* ISO7779 Idle	24.6			[—
	Operation	* ISO7779 Operation-HDD	17.1				7
	Other mode	ISO7779 ODD (When ODD operates)	NA				\mathbf{X}
	Other mode	When cooling fan operates (Fan max.) 37.8				_
	Measured acco	rding to: ISO 7779 ECMA-74 Other (only if not covered	thy ECMA-74)				
	Electromagnet						
P10.4		ay meets the requirement for low frequency e	lectromagnetic fields of th	e following voluntary			
P12		or computing products					
P12.1*		ets the ergonomic requirements of ISO 9241-	307 for visual display tech	nnologies.			
P12.2*		put device meets the requirements of ISO 999			\exists	⊢⊢	
P13		documentation					
P13.1*		ing material type(s): Cardboard(Box & Shee	et) weight (kg): 0.4	4273			
	Product package	ing material type(s): LDPE (EPE) weight (ko					
	Product packag	ing material type(s): HDPE(PE Bag)	weight (kg): 0.0173				
		ing material type(s): weight (kg):					
P13.2*		primary packaging is free from PVC.			\boxtimes		
P13.3*	For product primary corrugated fiberboard packaging, specify the contained percentage of minimum post- consumer recovered fiber content: 65 %						
P13.4*	Specify media for user and product documentation (tick box):						
P13.5		mplete this item if paper documentation used ict documentation on paper media is chlorine- pecify:					
	Totally chlorine	-free			\square		
	Elemental chlor	ine-free					
	Processed chlo	rine-free					
P14	Voluntary prog	grams					
P14.1	The product me ENERGY STAF Eco-label: Eco-label:	eets the requirements of the following voluntar R® Criteria version: 7.1 Criteria version: Criteria version:	y program(s): Date: 05-Nov-2019 Date: Date:	Product category: 2 Product category: Product category:			
DAG							
P15 P9	Additional information (See NOTE B10) Energy consumption of computer products; description of the tested product configuration:						
P9 P7.10			or the tested product co	oninguration:			
P7.10 P9				ith star	ndard		
		eeting ENERGY STAR® specifications. Use					У
P10	Acoustic noise information published on The Eco Declaration represents the characteristics of a model with standard configuration. Characteristics of models with different configurations may vary.						
P7.19	The definition of plastic parts in this item does not include cables in harmonization with TCO. AC cable commonly includes R4 substances.				40		
	Dynabook prov warranties for a Dynabook does	tained in this document is approximate and p ides this information without warranties of any a particular purpose. s not warrant that the content will be error free swledge at the time of completion, and Dynab	 kind neither expressed r All information in this do 	nor implied including but r cument is provided to the			

NOTE B9 A Guidance document on Acoustic Noise is available;

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

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.

Legal references Europe Annex B2

Reference	Declaration item
Directive 2011/65/EU (RoHS Directive)* * Specific exemptions apply for certain products and applications.	P1.1, P3.1
Regulation (EC) 1907/2006 (REACH Regulation), 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 2006/66/EC (Battery and accumulators Directive), as amended.* * 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 2014/35/EU (Low Voltage Directive)	P3.1
Directive 2014/30/EU (EMC Directive)	P3.1
Directive 2014/53/EU (RE 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
COMMISSION REGULATION (EU) No 617/2013 of 26 June 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers	P2.4, P2.5
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
Implementing Regulation (EU) 2019/290 establishing the format for registration and reporting of producers of electrical and electronic equipment to the register.	
Commission Implementing Regulation 2017/699 establishing a common methodology for the calculation of the weight of electrical and electronic equipment (EEE) placed on the national market in each Member State and a common methodology for the calculation of the quantity of waste electrical and electronic equipment (WEEE) generated by weight in each Member State.	