



## 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 * e-mail address	Stresemannallee 4b 41460 Neuss Germany	• dynabook	
Internet site *	http://emea.dynabook.com/generic/environmental-management/		
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 *	PBS10E , PBS11E, PBS12E			
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

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Product of	environmental attributes - Legal requirements	Requirer	nent met
Item		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)		
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),	$\boxtimes$	
	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		
1 1.4	terphenyl (PCT) in preparations (see legal reference).		Ш
P1.5*	Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the	ie 🔀	
	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/cm²/wee	k 🔀	
	(see legal reference).		
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):		
1 1.7	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	$\square$	
	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	ıl 🔀	
	reference)		
P2.3*	Batteries and accumulators are readily removable. (See legal reference)		
P3	Conformity verification & Eco design (ErP)		
P3.1*	The product is CE-marked to show conformance with applicable legal requirements (see legal reference).	$\boxtimes$	
	The Declaration of Conformity can be requested at (add link or e-mail address):  http://emea.dynabook.com/generic/product-conformity		
P3.2*	The product complies with the Eco design requirements for energy-related products.	$\square$	
. 0.2	(see legal reference).		
	Required information is; given in item P15 or added to this document,	$\boxtimes$	
	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.		
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		
	Protocol (see legal reference).	_	
D0	Comment: Legal reference has no maximum concentration values.		
P6.1*	Treatment information		
P0.1	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.

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Product	environmental attributes - Market requirements (See General NOTE GN below)				
Fioduct	- Environmental conscious design	Require	ment	met	
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.	
P7	Design				
D= 44	Disassembly, recycling				
P7.1*	Parts that have to be treated separately are easily separable	$\boxtimes$			
P7.2*	Plastic materials in covers/housing have no surface coating.	$\boxtimes$			
P7.3*	Plastic parts > 100 g consist of one material or of easily separable materials.				
P7.4*	Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.				
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	$\boxtimes$			
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	$\boxtimes$			
	Product lifetime				
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	$\boxtimes$			
P7.8*	Upgrading can be done using commonly available tools	$\boxtimes$			
P7.9.	Spare parts are available after end of production for: 5 years				
P7.10	Service is available after end of production for: See P15				
	Material and substance requirements				
P7.11*	Product cover/housing material type (e.g. plastics, metal, aluminum):  Material type: Plastic (PC+ABS) Material type: Material type:				
P7.12	Insulation materials of external electrical cables are PVC free.		X		
P7.13	Insulation materials of internal electrical cables are PVC free.	$\overline{\boxtimes}$			
P7.14					
P7.15	Printed circuit boards, PCBs (without components) are low halogen: all PCBs > 25 g are low halogen as defined in IEC 61249-2-21. (See <sup>5</sup> NOTE B2)				
P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4:  Marking: FR(40)				
P7.17	Alt. 1: Chemical specifications of flame retardants in printed circuit boards > 25 g (without components): TBBPA (additive) , TBBPA (reactive) (See NOTE B3), Other; chemical name:, CAS #:				
	<u>Alt. 2:</u> Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4: $FR(40)$				
P7.18	Alt. 1: Flame retarded plastic parts > 25 g contain the following flame retardant substances/preparations in concentrations above 0,1%:  1. Chemical name:, CAS #: (See NOTE B4)  2. Chemical name: , CAS #:				
	Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4: FR(40)	$\boxtimes$			
P7.19	In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been assigned the following Risk phrases; and Hazard statements:  The source(s) for these classifications is/are found at (add URL(s)):  (See NOTE B5)				

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.

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Product environmental attributes - Market requirements (continued)					Requi	reme	nt met	
Item						Yes	No	n.a.
	Material and substance requirements (continued)							
P7.20*	Postconsumer recy	cled plastic material c	content is used in the pr	roduct (See NOTE B6)	):		Ш	Ш
	a) Of total plastic		s below shall be answer the postconsumer recy		ontent (calculated as a			
	or b) The weight of recycled material is 62.85 g.							
P7.21*			in the product (See N	OTE B7):			$\boxtimes$	
	<ul> <li>If YES; at least one of the two alternatives below shall be answered;</li> <li>a) Of total plastic parts' weight &gt; 25 g, the biobased plastic material content (calculated as a percentage of total plastic by weight) is %.</li> </ul>							
	or b) The weight of	the biobased plastic r	naterial is g.					
P7.22*	Light sources are fr		less than 0,1 mg/lamp.	um mercury content pe	er lamp: mg	$\boxtimes$		
P8	Batteries				•			
P8.1*	Battery chemical co	omposition: Main Bate	tery : Li-ion					
P9		ion (See NOTE B8)						
P9.1	For the product the	following power level	s or energy consumption	ons are reported:				
Energy mo	ode *	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference/Standard modes and test meth		ЭУ	
charger plu	bower supply / ugged in the wall disconnected from	W	W	0.0928 W	EN 50563			
PTEC * Typical En	nergy Consumption	W	W	W				
Power_in_	Off	W	W	0.35 W	ENERGY STAR® Pr Requirements for C Version 7.1		rs	
Power_in_	Sleep	W	W	0.57 W	ENERGY STAR® Pr Requirements for C Version 7.1		rs	
Power_in_	Long_Idle	W	W	2.24 W	ENERGY STAR® Pr Requirements for C Version 7.1		rs	
Power_in_	Short_Idle	W	W	4.77 W	ENERGY STAR® Pr Requirements for C Version 7.1		rs	
ETEC * Annual En	ergy Consumption	kWh/year	kWh/year	<b>17.01</b> kWh/year	ENERGY STAR® Pr Requirements for C Version 7.1		rs	
External Power Supply Efficiency Level (International Efficiency Marking Protocol) *: VI								
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.								<u> </u>
P9.2*			on is provided with the	product.	1		Ш	<u>Ш</u>
P9.3 Energy efficiency class (monitors only):								$\boxtimes$

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

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Product	environmental	attributes - Market requirements (conti	nued)	Require	emen	t met
Item				Yes	No	n.a.
P10	Emissions					
	Noise emission	<ul> <li>Declared according to ISO 9296 (See NOTE)</li> </ul>	B9)			
P10.1	Mode	Mode description	Declared A-weighted sound pressure level L <sub>pAm</sub> (dB)	<mark>al,</mark>		
	Idle	* ISO7779 Idle	24.4			
	Operation	* ISO7779 Operation-HDD	16.9			
	Other mode	ISO7779 ODD (When ODD operates)	NA			X
	Other mode	When cooling fan operates (Fan max.)	37.4			
		rding to: SO 7779 ECMA-74 Other (only if not covered by	y ECMA-74)			
D40.4	Electromagnet					
P10.4	program(s):	ay meets the requirement for low frequency elec	tromagnetic fields of the following voluntary			
P12		r computing products	7 familiaria di alta de la cia			
P12.1*		ets the ergonomic requirements of ISO 9241-30	. , , , , , , , , , , , , , , , , , , ,	<u>_</u> _	_Ц	
P12.2*		out device meets the requirements of ISO 9995	and ISO 9241-410.			$\boxtimes$
P13		documentation				
P13.1*	Product packag Product packag Product packag	ing material type(s): weight (kg):	weight (kg): <b>0.4273</b> <b>0.0474</b> eight (kg): <b>0.0173</b>			
P13.2*		primary packaging is free from PVC.		$\boxtimes$		
P13.3*	For product prin consumer recov	nary corrugated fiberboard packaging, specify the rered fiber content: 65 %	ne contained percentage of minimum post-			
P13.4*		or user and product documentation (tick box): Paper , Other				
P13.5		mplete this item if paper documentation used) ct documentation on paper media is chlorine-fre pecify:	e:			
	Totally chlorine-	free				
	Elemental chlori					
	Processed chlor			H		
P14	Voluntary prog					
P14.1		ets the requirements of the following voluntary	program(s):			
	ENERGY STAR		Product category	: <b>2</b>		
	Eco-label:		Product category			
	Eco-label:	Criteria version:	Product category	:		
DAE	A dditional info	matica (Con NOTE D40)				
<b>P15</b>		rmation (See NOTE B10) Inption of computer products; description of	the tested product configuration:			
P7.10		depends on service agreement.	the tested product configuration.			
P9			represents only the characteristic of a mod	el with sta	ndard	
7.3	Energy Efficiency information published on The Eco Declaration represents only the characteristic of a model with standard configuration meeting ENERGY STAR® specifications. Use of different configurations or optional devices changes the energy efficiency					
P10		nformation published on The Eco Declaration re characteristics of models with different configura		standard		
P7.19		f plastic parts in this item does not include cable		monly incl	udes R	:40
	Information contained in this document is approximate and provided for informational purposes only.  Dynabook provides this information without warranties of any kind neither expressed nor implied including but not limited to warranties for a particular purpose.  Dynabook does not warrant that the content will be error free. All information in this document is provided to the best of					

NOTE B9 A Guidance document on Acoustic Noise is available;

 $see \ \underline{http://www.ecma-international.org/publications/standards/Ecma-370.htm}.$ 

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.	