



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

Annex B2 - Product environmental attributes 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 *	Lenovo	Logo					
Company name *	Lenovo						
Contact information *	Lenovo Global Environmental Affairs		ODOVO				
e-mail address	Alvin L Carter		Lenovo				
	alcarter@lenovo.com						
Internet site *	http://www.lenovo.com/social responsibility/us/en/environment.html						
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 *	Monitor				
Commercial name *	L22e-20				
Model number *	65DE				
Issue date *	2018/5/10				
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 *	65DE	Logo	Lonovo
Issue date *	2018/5/10		Lei Iovo

Product	environmental attributes - Legal requirements	Requirement 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)	\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),	\square	$\overline{}$	
1 1.0	hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-		ш	
	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	X		
	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 th	e 🔀		
	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/weel	(X		
	(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):	\boxtimes		
	http://www.lenovo.com/social_responsibility/us/en/environment.html			
P2	Batteries			
P2.1*	If the product contains a battery or an accumulator, the battery/accumulator is labeled with the disposal			\boxtimes
	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	I 📙		\boxtimes
P2.3*	reference) Batteries and accumulators are readily removable. (See legal reference)			\square
	<u> </u>			
P3	Conformity verification & Eco design (ErP) The product is CE-marked to show conformance with applicable legal requirements (see legal reference).		_	
P3.1	The Declaration of Conformity can be requested at (add link or e-mail address):	\boxtimes		
	https://www3.lenovo.com/us/en/social_responsibility/EU_DoC_monitors			
P3.2*	The product complies with the Eco design requirements for energy-related products,	\square		
1 0.2	(see legal reference).		Ш	Ш
	Required information is; Sigiven 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	ıd 🔀		
	hexavalent chromium by weight of these together.			
P5.2*	The packaging materials are marked with abbreviations and numbers indicating the nature of the material(s) 🔀		
	used (see legal reference).			
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montre	al 🔀		
	Protocol (see legal reference).			
DC	Comment: Legal reference has no maximum concentration values.			
P6	Treatment information			
F0. I	Information for recyclers/treatment facilities is available (see legal reference).			

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 *	65DE	Logo	Lopovo
Issue date *	2018/5/10		LEI IOVO"

Product	t environmental attributes - Market requirements (See General NOTE GN below)			
		Require	met	
Item	*=mandatory to fill in. Additional information 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 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.	$\overline{}$		
P7.4*	Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.	\boxtimes		
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).			
	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: 5 years			
	Material and substance requirements			
P7.11*	Product cover/housing material type (e.g. plastics, metal, aluminum):			
	Material type: ABS Material type: PC Material type:			
P7.12	Insulation materials of external electrical cables are PVC free.			_ <u></u> _
P7.13	Insulation materials of internal electrical cables are PVC free.			
P7.14	External plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 0,1% weight (1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, and polyvinyl chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in parts containing more than 25% post-consumer recycled content.	d C	Ш	
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 1NOTE B2)	v		
P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: Marking:			\boxtimes
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 #:			
	Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4:			
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)	1 		
	2. Chemical name: , CAS #: " 3. Chemical name: , CAS #: "			
	Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4:	<u>_</u>		_ <u>_</u> _
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:		Ш	Ш
	The source(s) for these classifications is/are found at (add URL(s)): , (See note B5)			
P7.20*	Postconsumer recycled plastic material content is used in the product (See Note B6): If YES; at least one of the two alternatives below shall be answered;		Ш	
	 a) Of total plastic parts' weight > 25 g, the postconsumer recycled plastic material content (calculated as a percentage of total plastic by weight) is 43.9%. (EPEAT calculation) / 85% (TCO calculation) or b) The weight of recycled material is 527.0 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 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.

Model nur	nber *	65DE				Logo	Lon		
Issue date	2018/5/10						Lenovo.		
Product	Product environmental attributes - Market requirements (continued) Requirement m								nt met
Item							Yes	No	n.a.
	Material	and subs	stance requirements	(continued)					
P7.21*	Biobaseo	d plastic m	naterial content is used	in the product (See N	IOTE B7):			\boxtimes	
 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 0%. or b) The weight of the biobased plastic material is 0g. 									
P7.22*									
P8	Batteries								
P8.1*	•		omposition:						\boxtimes
P9	Energy of	consump	tion (See NOTE B8)						
P9.1		roduct the		s or energy consumpti		Tp (/0/)			
Energy mo	de *		Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference/Standa modes and test me		nergy	
ENERGY S (System Id		n Mode*	14.3W	14.2W	14.3W	ENERGY STAR® Requirements for 0 Monitors: Ver. 7.0			
ENERGY S Sleep Mod		w Power	0.1W	0.2W	0.2W	ENERGY STAR® Requirements for 0 Monitors: Ver. 7.0	Computer		
ENERGY S Apparent C		f /	0.12W	0.13W	0.18W	ENERGY STAR® Requirements for 0 Monitors: Ver. 7.0			
			1	•					
PTEC * Typical En	ergy Cons	umption	W	W	W				
ETEC * Annual Ene	ergy Consi	umption	38.3kWh/year	38.0 kWh/year	39.3 kWh/year	$E_{TEC} = (8760/1000)$ $P_{sleep} \times 0.1 + P_{idle} \times 0.1$		0.6 +	
External Po	ower Supp	ly Efficien	cy Level (Internationa	l Efficiency Marking Pr	otocol) * :				
Display res	solution* :	1920*108	30 megapixels			ENERGY STAR® Requirements for 0 Monitors: Ver. 7.0			
			ve mode: 15 seconds			ENERGY STAR® Requirements for 0 Monitors: Ver. 7.0			
P9.2*	Informati	on about t	the energy save functi	on is provided with the	product.		\boxtimes		
P9.3*			the energy requirement version: 7.0 Product c	ents of the following vo	luntary program/s:		\boxtimes		
P10									
			Declared according to	ISO 9296 (See NOTE	E B9)				
P10.1	Mode	N	Node description	<u> </u>	Statistical upper lim	it A-weighted sound _l	power leve	I, L _{WA,c}	(B)
	Idle		HDD: Idle		*				
	Operatio		HDD: Operating		*				
	Other mo	ode D	eclared A-weighted soun	d pressure level (dB) $L_{p{\sf A}{\sf I}}$	m (operator po	sition desktop – idle)			
	Other mode $\frac{Declared A-weighted sound pressure level (dB)}{L_{pAm}}$								
	Measured according to: SISO 7779 ECMA-74								
ĺ	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 http://www.ecma-international.org/publications/standards/Ecma-370.htm

Wodel number 65		65DE					Logo	Long		
Issue dat	ue date * 2018/5/10				Lenc	, VO	н			
Product	environr	mental attributes	- Market requiren	nents (cor	ntinued)			Require	ment	met
Item					•			Yes	No	n.a.
	Electron	magnetic emission	s							
P10.4	Compute program		requirement for low t	frequency e	lectromagnetic field	ls of the foll	lowing voluntary	У		\boxtimes
P12		mics for computing								
P12.1*	The disp	lay meets the ergon	nomic requirements o	f ISO 9241-	307 for visual displa	ay technolo	gies.	\boxtimes		
P12.2*	The phys	sical input device m	eets the requirements	s of ISO 999	95 and ISO 9241-41	10.				\boxtimes
P13		ng and documenta								
P13.1*	Product Product	packaging material in packaging material in packaging material in packaging material in	type(s): PE Bag type(s): Paper	weight (kg weight (kg weight (kg weight (kg	g): 0.05 g): 0.03					
P13.2*	Product	plastic primary pack	aging is free from PV	/C.				\boxtimes		
P13.3*		duct primary corrugater recovered fiber co	ated fiberboard pack	caging, spec	cify the contained	percentage	of minimum p	oost-		
P13.4*			oroduct documentation	on (tick box):						
P13.5	Ùser and		em if paper documer ation on paper media							
	•	hlorine-free al chlorine-free								
	Process	ed chlorine-free								
P14	Volunta	ry programs								
P14.1	The prod	duct meets the requi	rements of the follow	ing voluntar	y program(s):					
	Eco-labe	el: Low Blue Light		1	Date: 2018/5/15 Date: 2018/5/4 Date: 2018/5/15	Product	category: <i>Displ</i> category: <i>Displ</i> category: <i>Displ</i>	lay		
P15		nal information (Se								
P9			ecific configuration						. 0	
	informati knowled	ion contained in this ge available at the ti I here is approximate	epresentations, guara document. All inform ime of completion, an e and provided for inf	nation provid nd supplier s	led by supplier in th hall have no obliga	is documer tion to upda	nt is provided batte such informa	ased on suppation. The in	olier's formati	ion
P9			lonitors & Displays fo products/office_equip							

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
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