



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		Lenovo		
e-mail address	Alvin L Carter		LETIOVO		
	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 statemen	nts given in this declaration.			
Type of product *	Monitor			
Commercial name *	L23i-18			
Model number *	65D1			
Issue date *	2017/03/22			
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.

wodei nu	ımber "	Error! Reference source not found.	Logo	Lend	21/6	
Issue date *		2017/03/22		Leik		тм
Product environmental attributes - Legal requirements			Require	ment	met	
Item				Yes	No	n.a.
P1	Hazardo	us substances and preparations				
P1.1*	Products	do comply with current European RoHS Directive. (See legal reference and NOTE	B1)	\boxtimes		
P1.2*		do not contain Asbestos (see legal reference). nt: Legal reference has no maximum concentration value.		\boxtimes		
P1.3*	Products hydrobro trichloroe	do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), omofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrach ethane, methyl bromide (see legal reference). Comment: Legal reference has no mation values.				
P1.4*		do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polych l (PCT) in preparations (see legal reference).	lorinated	\boxtimes		
P1.5*	Products	do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carl ntaining at least 48% per mass of chlorine in the SCCP (see legal reference).	oon atoms in t	ne 🔀		
P1.6*	(see lega	h direct and prolonged skin contact do not release nickel in concentrations above 0 al reference). nt: Max limit in legal reference when tested according to EN1811:2011-5.),5 μg/cm²/wee	ek 🔀		
P1.7*						
P2	Batterie	S				
P2.1*		duct contains a battery or an accumulator, the battery/accumulator is labeled with t Information on proper disposal is provided in user manual. (See legal reference)	he disposal			\boxtimes
P2.2*	Batteries reference	or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadme)	nium. (See leg	al		
P2.3*	Batteries	and accumulators are readily removable. (See legal reference)				\boxtimes
P3	Conforn	nity verification & Eco design (ErP)				
P3.1*	-	fluct is CE-marked to show conformance with applicable legal requirements (see leg laration of Conformity can be requested at (add link or e-mail address):	gal reference).			
P3.2*		fluct complies with the Eco design requirements for energy-related products,		X		
	(see lega	al reference).				
	Required	d information is; given in item P15 or added to this document,		\boxtimes		
		available at (add URL):				
P5		packaging				
P5.1*		ng and packaging components do not contain more than 0,01% lead, mercurent chromium by weight of these together.	y, cadmium a	nd 🔀		
P5.2*	The pack	caging materials are marked with abbreviations and numbers indicating the nature e legal reference).	of the material	(s) 🔀		
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montrea Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.			eal 🔀		
P6		nt information				
P6.1*		on 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 *	Error! Reference source not found.	Logo	Lanava
Issue date *	2017/03/22		Lei Iovo.

Produc	t environmental attributes - Market requirements (See General NOTE GN below)				
	- Environmental conscious design	Require	Requirement m		
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.	
P7	Design				
P7.1*	Disassembly, recycling Parts that have to be treated separately are easily separable				
P7.2*	Plastic materials in covers/housing have no surface coating.			╫	
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			<u> </u>	<u> </u>	
P7.5*	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.		 	<u> </u>	
P7.6"	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).				
P7.7*	Product lifetime Upgrading can be done e.g. with processor, memory, cards or drives				
P7.8*	Upgrading can be done e.g. with processor, memory, cards or drives Upgrading can be done using commonly available tools		+	+	
P7.9				- - -	
	Spare parts are available after end of production for: 5 years			<u> </u>	
P7.10	Service is available after end of production for: 5 years				
P7.11*	Material and substance requirements Product cover/housing material type (e.g. plastics, metal, aluminum):				
F7.11	Material type: <i>ABS</i> Material type: <i>PC</i> Material type: <i>SD-0150</i>)			
P7.12	Insulation materials of external electrical cables are PVC free.		X	П	
P7.13	Insulation materials of internal electrical cables are PVC free.	- H	X	Ħ	
P7.14	External plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 0,1%	6 X		Ħ	
	weight (1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, an	d			
	polyvinyl chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in part	S			
P7.15	containing more than 25% post-consumer recycled content.				
F1.13	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 📙	\boxtimes	Ш	
P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4:			\square	
	Marking:				
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 #:	\boxtimes	Ш	Ш	
	Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g				
	according ISO 1043-4:		\boxtimes		
P7.18	Alt. 1: Flame retarded plastic parts > 25 g contain the following flame retardant substances/preparations is	n			
	concentrations above 0,1%:		\boxtimes		
	1. Chemical name: , CAS #: (See NOTE B4) 2. Chemical name: , CAS #: "				
	3. Chemical name: , CAS #: "				
	Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4:		\square		
P7.19	In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been			- - -	
1 7.13	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):	\square			
			ш		
	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 by weight) is 0%. 				
	or				
	b) The weight of recycled material is 816.95 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 nun	Model number * Error! Reference source not found.		Logo	Lenovo.					
Issue date	Issue date * 2017/03/22				LEHOVO.				
Product environmental attributes - Market requirements (continued)						Requi	remer	nt met	
Item							Yes	No	n.a.
	Material	and subs	stance requirements	(continued)					
P7.21* Biobased plastic material content is used in the product (See NOTE B7):						\boxtimes			
				es below shall be answ					
					material content (calcu	lated as a percenta	ge		
	or	otai piastio	by weight) is %	6 .					
		weight of	f the biobased plastic	material is g.					
P7.22*				less than 0,1 mg/lamp				\boxtimes	
DO	Batterie:		specify: Number of lar	mps: and maxim	num mercury content pe	er lamp: mg			
P8.1*			omposition:						
P9			tion (See NOTE B8)						
P9.1				ls or energy consumpti	ons are reported:				
Energy mo			Power level at	Power level at	Power level at	Reference/Standa	ard for e	nergy	
			100 V AC	115 V AC	230 V AC	modes and test m			
ENERGY S		n Mode*	12.34 W	40.00 \\	40.50\\\	ENERGY STAR®			
(System Idi	le)		12.0	12.39 W	12.56 W	Requirements for Monitors: Ver. 7.0	•		
ENERGY S	STAR®Lo	w Power				ENERGY STAR®			
Sleep Mode			0.15 W	0.16 W	0.22 W	Requirements for	Computer		
						Monitors: Ver. 7.0			
ENERGY S		f/	0.11 W	0.11 W	0.17 W	ENERGY STAR® Requirements for			
Apparent C	Off Mode*		•			Monitors: Ver. 7.0	•		
PTEC *			12.34 W	12.39 W	12.56 W				
Typical Ene	ergy Cons	umption							
ETEC *			41.34 kWh/year	41.57 kWh/year	42.46 kWh/year				
Annual Ene			l cv I evel (Internationa	I I Efficiency Marking Pr	otocol) * · V/				
	опо. Сарр		,	g		ENERGY STAR®) Program		
Display res	solution* :	1920*108	30 megapixels			Requirements for			
						Monitors: Ver. 7.0			
Default time	a ta antar		save mode: minutes			ENERGY STAR® Requirements for			
Default time	e to enter	energy sa	ive mode. minu	iles		Monitors: Ver. 7.0			
P9.2*	Informati	on about	the energy save functi	on is provided with the	product.				
P9.3*				ents of the following vo	luntary program/s:				
D40			version: 7.0 Product of	ategory: Display .					
P10	Noise or		Declared according to	o ISO 9296 (See NOTE	= R0)				
P10.1	Mode		Mode description	0 130 9290 (366 1101)	Statistical upper lim	it A-weighted sound	power leve	el. / 14/4 .	(B)
	Idle		HDD: Idle		*			-, -vA,0	
	Operatio		HDD: Operating		*				
	Other mo	ode D	eclared A-weighted sour	d pressure level (dB) $L_{p{\sf Ar}}$	n (operator po	sition desktop – idle)			
	Other mo			ad pressure level (dB) $L_{p{\sf Ar}}$	(operator position desktop – operating)				
	Measure		ng to: X ISO 7779	ECMA-74					
		50. 411	Other	(only if not covered by	/ FCMA-74)				

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

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

Model number * Issue date *		Error! Reference source not found.	Logo	Lenovo.			
		2017/03/22			Lei IOVO,		
Product	environn	nental attributes - Market requirements (continued)			Require	ment	met
Item					Yes	No	n.a.
	Electron	nagnetic emissions					
P10.4	Compute	r display meets the requirement for low frequency electromagnetic fields of the fol is):	lowing volur	ntary			\boxtimes
P12	Ergonor	nics for computing products					
P12.1*	The disp	ay meets the ergonomic requirements of ISO 9241-307 for visual display technology	gies.		\boxtimes		
P12.2*	The phys	ical input device meets the requirements of ISO 9995 and ISO 9241-410.					\boxtimes
P13	Packagi	ng and documentation					
P13.1*	Product	backaging material type(s): EPS backaging material type(s): Paper backaging material type(s): Carton backaging material type(s): PE Bag backaging material type(s): 0.23 backaging material type(s): 0.30 backaging material type(s): 0.23 backaging material type(s): 0.23 backaging material type(s): 0.30 backaging material					
P13.2*	Product	plastic primary packaging is free from PVC.			\boxtimes		
P13.3*	For prod	uct primary corrugated fiberboard packaging, specify the contained percentage r recovered fiber content: 0%	of minimu	m pos	t-		
P13.4*	Specify r	nedia for user and product documentation (tick box): onic, ⊠Paper, ☐ Other					
P13.5	Ùser and	only complete this item if paper documentation used) product documentation on paper media is chlorine-free: ease specify:					
		nlorine-free					
		al chlorine-free					
	Processe	ed chlorine-free					
P14		y programs					
P14.1	The prod	uct meets the requirements of the following voluntary program(s):					
	Eco-labe	I: Criteria version: Date: Product	category: category:				
	Eco-labe		category:				
P15		al information (See NOTE B10)			-		
P9		consumption of specific configuration may vary; description of the tested pr					
	informati knowledg provided informati		nt is provide ate such inf	ed base ormatic	ed on supp on. The inf	lier's ormat	ion
P9		rgy Star Qualified Monitors & Displays for the latest information: ww.energystar.gov/products/office_equipment/displays					

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