

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			
Company name *	Lenovo			
Contact information *	act information * Lenovo Global Environmental Affairs		Lenovo	
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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 *	ThinkVision T27h-20			
Model number *	61EC			
Issue date *	2019/11/05			
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 *	61EC	Logo			
Issue date *		2019/11/05		Lenovo		
	t environ	mental attributes - Legal requirements		Require		
Item				Yes	No	n.a.
P1		us substances and preparations				
P1.1*		do comply with current European RoHS Directive. (See legal reference and NOTE	B1)	\boxtimes		
P1.2*	Commer	do not contain Asbestos (see legal reference). t: Legal reference has no maximum concentration value.		\square		
P1.3*	hydrobro trichloroe	do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), mofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachl ethane, methyl bromide (see legal reference). Comment: Legal reference has no ma ation values.				
P1.4*	terpheny	do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychle I (PCT) in preparations (see legal reference).		\square		
P1.5*		do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carb ntaining at least 48% per mass of chlorine in the SCCP (see legal reference).	oon atoms in t	he 🔀		
P1.6*	(see lega	h direct and prolonged skin contact do not release nickel in concentrations above 0, al reference). it: Max limit in legal reference when tested according to EN1811:2011-5.	,5 μg/cm²/wee	ek 🗌		
P1.7*	REACH Article 33 information about substances in articles is available at (add URL or mail contact):					
P2	Batterie	6				
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)					
P2.2*	Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal					
P2.3*	Batteries and accumulators are readily removable. (See legal reference)					
P3	Conform	nity verification & Eco design (ErP)				
P3.1*		uct is CE-marked to show conformance with applicable legal requirements (see legaration of Conformity can be requested at: https://www.lenovo.com/us/en/compliance				
P3.2*	The proc	uct complies with the Eco design requirements for energy-related products, al reference).		\boxtimes		
	•	I information is; given in item P15 or added to this document, available at: https://www.lenovo.com/us/en/compliance/ed	a de devetier			
P5	Droduct	packaging		1		
P5.1*		packaging og and packaging components do not contain more than 0,01% lead, mercury	cadmium a	and 🔀		
		nt chromium by weight of these together.	, caannann c			
P5.2*	The pac	aging materials are marked with abbreviations and numbers indicating the nature o e legal reference).	of the material	l(s) 🔀		
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference).					
	Comment: Legal reference has no maximum concentration values.					
P6		nt information				
P6.1*	Informati	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 * Issue date *		61EC	Logo			
		2019/11/05		Len	_enovo,	
Product	environ	mental attributes - Market requirements (See General NOTE GN	below)			
		onmental conscious design		Require	ment	met
Item		tory to fill in. Additional information regarding each item may be found under P14.		Yes	No	n.a.
P7	Design Disasse	mbly, recycling				
P7.1*	Parts that have to be treated separately are easily separable					
P7.2*	Plastic m	aterials in covers/housing have no surface coating.			\times	
P7.3*	Plastic p	arts > 100 g consist of one material or of easily separable materials.				
P7.4*	Plastic p	arts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.				
P7.5	Plastic p	arts are free from metal inlays or have inlays that can be removed with commonly a	available tools.			
P7.6*	Labels a	re easily separable. (This requirement does not apply to safety/regulatory labels).				
-	Product	lifetime				
P7.7*	Upgradir	ng can be done e.g. with processor, memory, cards or drives		\square		
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: 5 years				
	Material	and substance requirements				
P7.11*		cover/housing material type (e.g. plastics, metal, aluminum):				
D7.40			al type: POM			
P7.12		n materials of external electrical cables are PVC free.		<u> </u>		Ц.
P7.13		n materials of internal electrical cables are PVC free.				Ц.
P7.14	weight (* polyvinyl	plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) b 1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine i in 25% post-consumer recycled content.	e retardants, ar	nd 🗖		
P7.15		ircuit boards, PCBs (without components) are low halogen: all ⊠ PCBs > 25 g ad in IEC 61249-2-21. (See 1NOTE B2)	are low haloge	en 🗌	\boxtimes	
P7.16	Flame re Marking:	tarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4:				\square
P7.17		nemical specifications of flame retardants in printed circuit boards > 25 g (without ca PA (additive), TBBPA (reactive) (See NOTE B3), Other: , CAS #:	omponents):	\boxtimes		
		nemical specifications of flame retardants in printed circuit boards (without compone g ISO 1043-4:	ents) > 25 g			\square
P7.18	concentr 1. Chem 2. Chem	ame retarded plastic parts > 25 g contain the following flame retardant substance ations above 0,1%: ical name: , CAS #: (See NOTE B4) ical name: , CAS #: " ical name: , CAS #: "	es/preparations	in		
		nemical specifications of flame retardants in plastic parts > 25 g according ISO 104	3-4:			\square
P7.19	assigned	; parts > 25 g, flame retardant substances/preparations above 0,1% are used which I the following Risk phrases; and Hazard statements:	n have been			\square
DZ cct	The source(s) for these classifications is/are found at (add URL(s)): , (See note B5)					
P7.20*	Postcons	sumer recycled plastic material content is used in the product (See Note B6):		\bowtie		
	a) Of t a pe or	t least one of the two alternatives below shall be answered; otal plastic parts' weight > 25 g, the postconsumer recycled plastic material conten ercentage of total plastic by weight) is <i>81.3</i> %. e weight of recycled material is <i>896.4</i> g.	t (calculated as			

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 number *	* 61EC				
Issue date *	Error! Reference source not found.		Lenovo		
Product environmental attributes - Market requirements (continued) Requirement met					

Requirement met Yes No n.a.

Material and subs	tance requirements	(continued)					
		in the product (See N	OTE B7):				
	If YES; at least one of the two alternatives below shall be answered;						
total plastic by	weight) is 0%.			·			
or b) The weight of	the biobased plastic r	natorial is Og					
		less than 0,1 mg/lamp					
	If mercury is used specify: Number of lamps: and maximum mercury content per lamp: mg						
P8 Batteries							
P8.1* Battery chemical co	•						
	ion (See NOTE B8)						
P9.1 For the product the Energy mode *	Power level at	s or energy consumpti Power level at	Power level at	Reference/Standard for energy			
Energy mode	100 V AC	115 V AC	230 V AC	modes and test method *			
ENERGY STAR® On Mode*				ENERGY STAR® Program			
(System Idle)	17.24	17.15	17.36	Requirements for Computer			
				Monitors: Ver. 8.0			
ENERGY STAR® Low Power	0.18	0.18	0.21	ENERGY STAR® Program			
Sleep Mode*	0.10	0.110	0.21	Requirements for Computer Monitors: Ver. 8.0			
				ENERGY STAR® Program			
ENERGY STAR® Off /	0.12	0.12	0.15	Requirements for Computer			
Apparent Off Mode*				Monitors: Ver. 8.0			
PTEC *	17.04 W	17.15 W	17.36 W				
Typical Energy Consumption							
ETEC *	53.88 kWh/year	53.61 kWh/year	54.42 kWh/year	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.6 + $			
Annual Energy Consumption External Power Supply Efficien	cv Level (International	 Efficiency Marking Pre	ntocol) * ·	$P_{sleep} \times 0.1 + P_{idle} \times 0.3)$			
				ENERGY STAR® Program			
Display resolution* : 2560*144	0 megapixels			Requirements for Computer			
	• megaphiele			Monitors: Ver. 8.0			
				ENERGY STAR® Program			
Default time to enter energy sa	ve mode: 15 seconds			Requirements for Computer			
D0.0* Information about t	h			Monitors: Ver. 8.0			
		on is provided with the					
		ents of the following vol duct category: Display					
ENERGY STAR		auci calegory. Display					
P10 Emissions							
		ISO 9296 (See NOTE					
				per limit A-weighted sound power level, <i>L_{WA,c}</i> (B)			
	HDD: Idle		*				
	Operation * HDD: Operating						
Other mode D	= nAm						
Other mode							
	Measured according to: X ISO 7779 ECMA-74						
	Other (only if not covered by ECMA-74)						

Item

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

Model number * Issue date *		61EC			Logo			
		Error! Reference source not found.			Leno	Lenovo.		
Product	environr	nental attribut	tes - Market requirements	(continued)		Require	ment	met
ltem						Yes	No	n.a.
		nagnetic emiss						
P10.4	program	(s):	the requirement for low freque	ncy electromagnetic fields	s of the following volun	tary		\boxtimes
P12	Ergono	mics for compu	ting products					
P12.1*	The disp	lay meets the er	gonomic requirements of ISO 9	241-307 for visual displa	y technologies.	\square		
P12.2*	The phy	sical input device	e meets the requirements of IS	O 9995 and ISO 9241-41).	\boxtimes		
P13	Packagi	ing and docume	entation					
P13.1*	Product packaging material type(s): EPS (Cushion) weight (kg): 0.462 Product packaging material type(s): Paper (Cushion) weight (kg): 1.586 Product packaging material type(s): LDPE/EPE weight (kg): 0.030 Product packaging material type(s): weight (kg): weight (kg):							
P13.2*	Product	plastic primary p	ackaging is free from PVC.			\boxtimes		
P13.3*	For product primary corrugated fiberboard packaging, specify the contained percentage of minimum post-							
P13.4*	Specify media for user and product documentation (tick box):							
P13.5	Ùser and If Yes, p		is item if paper documentation entation on paper media is chlo					
	Elemental chlorine-free							
	Processed chlorine-free							
P14	Volunta	ry programs						
P14.1	ENERG Eco-labe Eco-labe	Y STAR® bl: bl:	equirements of the following vol Criteria version: <i>8.0</i> Criteria version: Criteria version:	untary program(s): Date: 2019/10/18 Date: Date:	Product category: LC Product category: Product category:	CD Monitor		
P15			(See NOTE B10)					
P9	Energy	consumption o	f specific configuration may	vary; description of the	tested product config	guration:		
	informat knowled	ion contained in ge available at tl I here is approxir	o representations, guarantees, this document. All information p ne time of completion, and supp mate and provided for informati	provided by supplier in thi plier shall have no obligat	s document is provided ion to update such info	d based on supp rmation. The int	olier's formati	ion
P9	See Energy Star Qualified Monitors & Displays for the latest information: https://www.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