



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

Annex B2 - Product environmental attributes Notebooks and Tablets

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	LEHOVO			
	alcarter@lenovo.com				
Internet site *	https://www.lenovo.com/us/en/sustainability-resources/				
Additional information	The latest version of this document can be found at:				
	http://www.lenovo.com/ecodeclaration				

	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				
Commercial name *	Lenovo S15 G3 IAP				
Model number *	82TX				
Issue date *	2022-04-14				
Intended market *	☐ Global ☐ Europe ☐ Asia, Pacific & Japan ☐ Americas ☒ Other CHINA				
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

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 Asbestos (see legal reference). P1.3* Products do not contain Asbestos (see legal reference). P1.4* Products do not contain Ozope Depleting Substances: Chloroffuorocarbons (CFC), hydrobromoffuorocarbons (HBFC), hydrochloroffuorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichlorocthane, 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). 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) and contain 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/week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:2011-5. P1.7* REACH Article 31 information about substances in articles is available at (add URL or mail contact): https://www.lenovo.com/us/en/Lenovo-REACH-SVHC-Disclosure P2.2* Batteries Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal reference) P2.2* Batteries or accumulators are readily removable. (See legal reference) P3.4* 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) P3.5* The product contains a battery or an accumulator, the battery/accumulator is labeled with the disposal is provided in user manual. (See legal reference)	Model nun	lodel number * 82TX		Logo	Long	200		
Hexardous substances and preparations	Issue date	*	2022-04-14		Len	JVC) _{th.}	
P1.1* Products do not contain Absentisos (see legal reference). P1.2* Products do not contain Absentisos (see legal reference). Comment. Legal reference has no maximum concentration value. P1.3* Products do not contain Absentisos (see legal reference). Loy Products do not contain Absentisos (see legal reference). P1.3* Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrochloromofluorocarbons (HBFC), hydrochlorofluorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichlororethane, 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). P1.5* Products do not contain more than 0,19% 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/cm²/week (see legal reference). P2.1* REACH Article 33 information about substances in articles is available at (add URL or mail contact): https://www.lenovo.com/ws/en/Lenovo-REACH-SVHC-Disclosure 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) P2.3* Batteries or accumulators are readily removable. (See legal reference) P2.3* Batteries or 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). P4.1* The product complies with the Eco design requirements for energy-related products, (see legal reference). P5.1* Packaging materials are marked with abbreviations and numbers indicating the nature of the material(s) used	Product environmental attributes - Legal requirements				Require	ment	met	
P1.12 Products do comply with current European RoHS Directive. (See legal reference and NOTE B1) P1.22 Products do not contain Asbestos (see legal reference).	Item				Yes	No	n.a.	
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: Chlorofituorocarbons (CFC), hydrobromofituorocarbons (HBFC), hydrochlorofituorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values. Products do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated terphenyl (PCT) in preparations (see legal reference). 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/cm²/week (see legal reference). 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): https://www.lenovo.com/us/en/Lenovo-REACH-SVHC-Disclosure 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 reference) P2.3* Batteries and accumulators are readily removable. (See legal reference) 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): P5.1* Packaging and packaging components do not contain more than 0,01% lead, mercury, cadmium and hexavalent chronium by weight of these together. P6.1* Product packaging P6.1* Product packaging are marked with abbreviations and numbers indicating the nature of the material(s) used (see legal ref	P1							
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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 n	umber *	82TX	Logo	Lond	21/0	
Issue date *		2022-04-14		Lend		
Produc		mental attributes - Market requirements (See General NOTE GN	below)	_		
14		onmental conscious design		Requiren		
Item P7		tory to fill in. Additional information regarding each item may be found under P14. Disassembly, recycling		Yes	No	n.a.
P7.1*		at have to be treated separately are easily separable				
P7.2*		naterials in covers/housing have no surface coating.				∺
P7.3*		arts > 100 g consist of one material or of easily separable materials.				∺
P7.4*		arts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.			∺	╫
P7.5		arts are free from metal inlays or have inlays that can be removed with commonly a	available tools		井	井
P7.6*		<u> </u>	avaliable 100is.		#	井
P7.0		re easily separable. (This requirement does not apply to safety/regulatory labels).				
P7.7*	Product	ng can be done e.g. with processor, memory, cards or drives				
P7.8*		ng can be done using commonly available tools			井	井
		· · · · · · · · · · · · · · · · · · ·				井
P7.9		arts are available after end of production for: 3 years				ᆜ
P7.10		s available after end of production for: 5 years				
P7.11*		and substance requirements cover/housing material type (e.g. plastics, metal, aluminum):				
P1.11		type: <i>PC+ABS</i> Material type (e.g. plastics, metal, adminidin).				
P7.12		n materials of external electrical cables are PVC free.			\square	
P7.13		n materials of internal electrical cables are PVC free.			X	Ħ
P7.14		plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) b	romine and 0.1	1%		∺
	weight (polyvinyl	1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flam- chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine i in 25% post-consumer recycled content.	e retardants, a	nd		
P7.15		circuit boards, PCBs (without components) are low halogen: all ☐ PCBs > 25 g ≥ ed in IEC 61249-2-21. (See 1NOTE B2)	are low halog	en 🗌	\boxtimes	
P7.16	Marking:					
P7.17		nemical specifications of flame retardants in printed circuit boards > 25 g (without c	omponents):			
	TBBF	PA (additive), TBBPA (reactive) (See NOTE B3), Other: , CAS #:		\boxtimes		
		nemical specifications of flame retardants in printed circuit boards (without compon- g ISO 1043-4:	ents) > 25 g			
P7.18	Alt. 1					
	concentr	etarded plastic parts >25g contain the following flame retardant substance: ations above 0.1%: ical name: Oligomeric phosphorous compound CAS #: confidential	s/preparations	in 🔀		
		ical name: CAS #:				
		ical name: CAS #:				
	Alt. 2	ical name: , CAS #:				
		Il specifications of flame retardants in plastic parts >25g according ISO 1043-4:				
P7.19	assigned	parts > 25 g, flame retardant substances/preparations above 0,1% are used which the following Risk phrases; confidential and Hazard statements: H411;H4° rec(s) for these classifications is/are found at (add URL(s)): European County	13			
DT 221	67/548/E	, ,				
P7.20*	Postcons	sumer recycled plastic material content is used in the product (See Note B6):				
	a) Of t	nt least one of the two alternatives below shall be answered; otal plastic parts' weight > 25 g, the postconsumer recycled plastic material conter ercentage of total plastic by weight) is	nt (calculated as	\$		
		weight of recycled material is 2.1 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 number *	82TX		Lanova
Issue date *	2022-04-14		Lei Iovo.

Product environmental attributes - Market requirements (continued)	Requi	remen	t met
Item	Yes	No	n.a.

Material and subs	tance requirements	(continued)						
		in the product (See N	OTE B7):		П			
If VES: at least one	of the two alternative	es below shall be answ	orod:					
a) Of total plastic	c parts' weight > 25 g.	the biobased plastic m	ereu, naterial content (calcula	ated as a percentage of				
	total plastic by weight) is 0 %.							
or								
	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	specify. Number of lar	прэ. апа тахит	idin mercury content pe	or lamp.				
	omposition: LI-ION Po	olymer battery and litt	hium-metal battery		П			
	tion (See NOTE B8)		•					
		s or energy consumpti	ons are reported:					
Energy mode *	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference/Standard for energy modes and test method *				
Peak (On-max)	65 W	65 W	65 W	Full load				
Category 1								
Short Idle State - WOL	5.83 W	5.87 W	5.92 W	ENERGY STAR Computers				
Enabled				V8.0				
Long Idle State - WOL	1.54 W	1.59 W	1.64 W	ENERGY STAR Computers				
Enabled	7.04 11	1.00 11	1.04 11	V8.0				
Class (C2) MOL Frabled	0.40 \\\	0.40.\\	0.50\\\	ENERGY STAR Commissions				
Sleep (S3) - WOL Enabled	0.48 W	0.49 W	0.50 W	ENERGY STAR Computers V8.0				
Off (S5) - WOL Enabled	0.25 W	0.26 W	0.27 W	ENERGY STAR Computers				
				V8.0				
Category 2								
Short Idle State - WOL	6.43 W	6.49 W	6.54 W	ENERGY STAR Computers V8.0				
Enabled	0.40 **	0.43 **	0.54 **	ENERGY STAR Computers vo.0				
	0.714/	0.7014	0.70\\\	EVEDOV OTABLO				
Long Idle State - WOL Enabled	2.7 W	2.73 W	2.78 W	ENERGY STAR Computers V8.0				
Lilabieu								
Sleep (S3) - WOL Enabled	0.64 W	0.64 W	0.65 W	ENERGY STAR Computers V8.0				
Off (S5) - WOL Enabled	0.25 W	0.26 W	0.27 W	ENERGY STAR Computers V8.0				
EPS No-load	0.108 W	0.108 W	0.108 W					
(External power supply / charger plugged in the wall outlet but disconnected from the product.)								
PTEC *	W	W	W		П			
Typical Energy Consumption								
ETEC *	1: 18.70 kWh/year	1: 18.88 kWh/year	1: 19.12 kWh/year	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.25)$				
Annual Energy Consumption	2: 21.76 kWh/year	2: 21.97 kWh/year	2: 22.20 kWh/year	+ P _{sleep} x 0.35 + P _{long_idle} x 0.10+ P _{short idle} x 0.30)				
				ed; Pidle: Idle State - WOL Enabled				
External Power Supply Efficien	External Power Supply Efficiency Level (International Efficiency Marking Protocol) *: VI							
Display resolution * : 2.07 meg	apixels							
Default time to enter energy sa	ve mode: 10 minutes							
P9.2* Information about t	he energy save functi	on is provided with the	product.		f			
P9.3 Energy efficiency of		X						

NOTE B8 A Guidance document on Energy Efficiency is available;

 $see \hspace{0.2cm} \underline{\text{http://www.ecma-international.org/publications/standards/Ecma-370.htm}}$

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

P10	Emissions					
	Noise emissio	n – Declared according to ISO 9296 (See NOTE I	39)			
P10.1	Mode	Mode description	Statistical upper limit A-weighted sound power level, $L_{WA,c}$ (B)			
	Idle	* Idle	* 2.5			
	Operation * Operation * 3.9 Other mode Declared A-weighted sound pressure level (dB) L pAm 17.4 (operator position desktop – idle)					
	17.4 (operator position desktop – idle)					
	Other mode	Declared A-weighted sound pressure level (dB) $_{L_{p \mathrm{Am}}}$	30.7 (operator position desktop – operating)			
	Measured according to: ☐ ISO 7779 ☐ ECMA-74					
	Other (only if not covered by ECMA-74)					

Model number *		82TX		Logo	Long	V/0	
Issue date	*	2022-04-14			Leno	VO.	
Product	environr	mental attributes - Market requirements (continued)			Require	ment	met
Item		·			Yes	No	n.a.
	Electron	magnetic emissions					
P10.4		er display meets the requirement for low frequency electromag (s): MPR-II(3 pin AC adapter only)	netic fields of the fol	lowing voluntary			
P12		mics for computing products					
P12.1*		olay meets the ergonomic requirements of ISO 9241-307 for vis		ogies.	\boxtimes		
P12.2*		sical input device meets the requirements of ISO 9995 and ISO	9241-410.		\boxtimes		
P13		ing and documentation					
P13.1*	Product Product Product Product Product	packaging material type(s): <i>CARTON</i> weight (kg): <i>0.35</i> packaging material type(s): <i>paper(manual)</i> weight (kg): <i>packaging material type(s)</i> : <i>corner paper</i> weight (kg): <i>0.039</i> packaging material type(s): <i>PE</i> weight (kg): <i>0.012</i> packaging material type(s): <i>PP</i> weight (kg): <i>0.0046</i>	g): 0.046				
P13.2*	Product	plastic primary packaging is free from PVC.			\boxtimes		
P13.3*	consume	duct primary corrugated fiberboard packaging, specify the ∞ er recovered fiber content: 89.42%	ontained percentage	e of minimum po	ost-		
P13.4*	Electron	media for user and product documentation (tick box): ic ⊠, Paper ⊠, Other □					
P13.5	User and	only complete this item if paper documentation used) d product documentation on paper media is chlorine-free: lease specify:					
	Totally chlorine-free Elemental chlorine-free Processed chlorine-free						
D4.4							
P14 P14.1		ry programs duct meets the requirements of the following voluntary program	1/0):				
	ENERG' Eco-labe	Y STAR® Criteria version: 8.0 Date: 20 Date: el: Criteria version: Date: el: Criteria version: Date:	20/7/15 Product Product	category: 2 category:			
P15		nal information (See NOTE B10)					
P9		consumption of specific configuration may vary; descripti					
	NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or implied, regarding the information contained in this document. All information provided by supplier in this document is provided based on supplier's knowledge available at the time of completion, and supplier shall have no obligation to update such information. The information provided here is approximate and provided for informational purposes only. See a Lenovo Account Representative for more information.						
P9		ergy Star Qualified Notebooks & Tablet Computers for the ww.energystar.gov/index.cfm?fuseaction=find_a_product.		p&pgw_code=0	0		

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