



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 * e-mail address	Lenovo Global Environmental Affairs Alvin L Carter	Lenovo		
	alcarter@lenovo.com	V-1- AND THE VALUE OF THE VALUE		
Internet site *	http://www.lenovo.com/social_responsibility/us/en/environment.html			
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 *	IdeaPad 5 14 ACL05/Lenovo XiaoXin 14/XiaoXin Air 14 2021			
Model number *	82LM			
Issue date *	2020/11/24			
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 *		82LM	Logo	Lon	27/10	4
Issue date	e *	2020/11/24		Len	JVC)_
Product	environ	mental attributes - Legal requirements		Require	ment	met
Item				Yes	No	n.a.
P1		ous substances and preparations				
P1.1*	Products	s do comply with current European RoHS Directive. (See legal reference and NOTE	EB1)	\boxtimes		
P1.2*		s 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), hydrochlorofluorocarbons (HCFC), Halons, carbontetrach ethane, methyl bromide (see legal reference). Comment: Legal reference has no mation values.				
P1.4*	Products	s do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polych l (PCT) in preparations (see legal reference).				
P1.5*	Products	s do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 cart ntaining at least 48% per mass of chlorine in the SCCP (see legal reference).	oon atoms in	the 🔀		
P1.6*	(see lega	th 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/we	eek 🔀		
P1.7*	REACH	Article 33 information about substances in articles is available at (add URL or mail www.lenovo.com/us/en/Lenovo-REACH-SVHC-Disclosure	contact):			
P2	Batterie					
P2.1*		educt 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			
P2.2*	Batteries reference	s or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadme)	nium. (See leç	gal 🔀		
P2.3*	Batteries	and accumulators are readily removable. (See legal reference)		X		
P3	Conforn	nity verification & Eco design (ErP)				
P3.1*		duct is CE-marked to show conformance with applicable legal requirements (see leg- laration of Conformity can be requested at:: https://www.lenovo.com/us/en/complia.).		
P3.2*	The prod	duct complies with the Eco design requirements for energy-related products, al reference).		\boxtimes		
	` .	d information is; Sigiven in item P15 or added to this document, Sigiven in item P15 or added to this document, Attached at: https://www.lenovo.com/us/en/compliance/e	eco-declaratio	on 🖂		
P5		packaging				
P5.1*	hexavale	ng and packaging components do not contain more than 0,01% lead, mercury ent chromium by weight of these together.	, ,			
P5.2*		kaging materials are marked with abbreviations and numbers indicating the nature or legal reference).	of the materia	al(s)		
P5.3*	(see lega	luct packaging material is free from ozone depleting substances as specified in the N al reference). nt: Legal reference has no maximum concentration values.	nontreal Proto	ocol 🔀		
P6		nt information				
P6.1*		on 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.

Model nu	ımber *	82LM	Logo	Leno	WO			
Issue dat	te *	2020/11/24		Leilo	VO.			
Product	environ	mental attributes - Market requirements (See General NOTE GN I	oelow)					
	- Enviro	onmental conscious design		Requirem	ent me	et		
Item		tory to fill in. Additional information regarding each item may be found under P14.		Yes	No n	ı.a.		
P7 P7.1*		Disassembly, recycling at have to be treated separately are easily separable				_		
P7.1						=		
P7.2*		naterials in covers/housing have no surface coating.				4		
P7.3*		arts > 100 g consist of one material or of easily separable materials.		$oxed{\boxtimes}$		_		
P7.4		Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4. Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.						
P7.5	-	ans are free from metal inlays or have mays that can be removed with commonly a re easily separable. (This requirement does not apply to safety/regulatory labels).	valiable tools.			4		
P7.0	Product							
P7.7*		ng can be done e.g. with processor, memory, cards or drives				_		
P7.8*		ng can be done using commonly available tools				┽┤		
P7.9		arts are available after end of production for: 5 years		ш		=		
P7.10		s available after end of production for: 5 years				=		
1 7.10		and substance requirements						
P7.11*		cover/housing material type (e.g. plastics, metal, aluminum):						
		• , , • ,	l type: Covestro	FR3021				
P7.12	Inculation	n materials of external electrical cables are PVC free.				\dashv		
P7.12		n materials of external electrical cables are PVC free.				4		
P7.13		plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) br	oming and 0.1%	<u> </u>		_		
F1.14		1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame			ш			
	polyvinyl	chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in						
P7.15		in 25% post-consumer recycled content.				_		
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 haloge	n 📙				
P7.16	Flame re	etarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4:		\square		$\neg \neg$		
	Marking:							
P7.17	Alt. 1: Ch	nemical specifications of flame retardants in printed circuit boards > 25 g (without co	mponents):	\square		- ,		
	26265-0	PA (additive), TBBPA (reactive) (See NOTE B3), Other: <i>Brominated epoxy i</i>	esin, CAS #:					
			mta) > 0F m			$\overline{}$		
		nemical specifications of flame retardants in printed circuit boards (without compone g ISO 1043-4:	nis) > 25 g	Ш		\boxtimes		
P7.18		ame retarded plastic parts > 25 g contain the following flame retardant substances	s/preparations in	า				
		rations above 0,1%:				\boxtimes		
		ical name: , CAS #: (See NOTE B4) ical name: , CAS #: "						
		ical name: , CAS #: "						
		nemical specifications of flame retardants in plastic parts > 25 g according ISO 1043	1 A·			- I		
P7.19		parts > 25 g, flame retardant substances/preparations above 0,1% are used which				┽┤		
		I the following Risk phrases; and Hazard statements:			∠ L	_		
	-		ee note B5)					
P7.20*		sumer recycled plastic material content is used in the product (See Note B6):		\boxtimes		$\neg \uparrow$		
				<u>~_</u> V		_		
		It least one of the two alternatives below shall be answered;	(aalauleted s					
		otal plastic parts' weight > 25 g, the postconsumer recycled plastic material content ercentage of total plastic by weight) is <i>Plastic SKU: 2.23%; Metal SKU: 3.6</i> %%.	(carculated as					
	or	s. comago of total placed by worghly to reacted of the 2120/0, motal of the 0.0/0/0.						
	b) The	weight of recycled material is <i>Plastic SKU: 8.4; Metal SKU:8.4</i> 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 *	82LM	Logo	Len	01/0	
Issue date *	2020/11/24		Leil	UVC	' -
Product environn	nental attributes - Market requirements (continued)		Requi	emen	t met
Item			Yes	No	n.a.

			/ (* N					
P7.21*		tance requirements		NOTE D7).		_		
P1.21	biobased plastic m	aterial content is used	d in the product (See I	NOTE BT):		Ш		
P7.22*	Light sources are f	ree from mercury, i.e.	less than 0,1 mg/lam	p.				
		specify: Number of lar	mps: and maxir	mum mercury content p	er lamp: mg			
P8	Batteries							
P8.1*	Battery chemical co	omposition: <i>Lithium i</i>	on					
P9		tion (See NOTE B8)						
P9.1	For the product the following power levels or energy consumptions are reported:							
Energy mo	de *	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			
Categor	y NB2							
Short Idle Enabled	State - WOL	4.85 W	4.99 W	4.75 W	Use for ENERGY STAR V6 registration (P _{idle})			
Long Idle State - WOL Enabled		1.18 W	1.13 W	1.18 W	Use for ENERGY STAR V6 registration (P _{idle})			
Sleep (S3) - WOL Enabled		1.18 W	1.13 W	1.18 W	Use for ENERGY STAR V6 registration(P _{sleep})			
Off (S5) - I	WOL Enabled	0.31 W	0.31 W	0.35 W	Use for ENERGY STAR V6 registration(P _{off})			
Off (S5) - I	WOL Disabled	0.31 W	0.31 W	0.35 W	Use for ErP			
EPS No-loa (External power s	ad supply / charger plugged in the connected from the product.)	0.033 W	0.034 W	0.085 W				
PTEC * Typical En	ergy Consumption	W	W	W				
ETEC * Annual Energy Consumption		18.08 kWh/year	18.25 kWh/year	17.90 kWh/year	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.25 + P_{sleep} \times 0.35 + P_{long_Idle} \times 0.10 + P_{short_Idle} \times 0.30)$			
					ed; P _{idle} : Idle State - WOL Enabled			
External Po	ower Supply Efficien	cy Level (Internationa	l Efficiency Marking P	rotocol) * : VI				
Display resolution *: 1920*1080 megapixels								
Default time to enter energy save mode: 10 minutes								
P9.2*	Information about t	he energy save functi	on is provided with the	e product.				
P9.3	Energy efficiency of	lass (monitors only):				\boxtimes		

Emissions				
Noise emission	 Declared according to ISO 9296 (See NOTE E) 	39)		
Mode	Mode description	Statistical upper limit A-weighted sound power level, $L_{WA,c}$ (B)		
Idle	* Idle	* 2.7		
Operation * CPU Operating		* 3.7		
		19.1 (operator position desktop – idle)		
Other mode	Declared A-weighted sound pressure level (dB) $_{L_{p\mathrm{Am}}}$	29.6 (operator position desktop – operating)		
Measured according to: ISO 7779 ECMA-74				
Other (only if not covered by ECMA-74)				
	Noise emission Mode Idle Operation Other mode Other mode	Noise emission – Declared according to ISO 9296 (See NOTE of Mode		

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 *	82LM				Logo	Long		
Issue date *	2020/11/24					Leno	VO	
Product environr	nental attributes	- Market requiremen	nts (conti	inued)		Require	ment	met
Item						Yes	No	n.a.
Electron	nagnetic emission	3						
program	(s):	· .	luency ele	ctromagnetic fie	ds of the following voluntary	′ 🔲		
	mics for computing							
P12.1* The disp	lay meets the ergon	omic requirements of ISC	O 9241-30	7 for visual disp	lay technologies.		\boxtimes	
P12.2* The phy	sical input device me	eets the requirements of	ISO 9995	and ISO 9241-4	10.		\boxtimes	
	ng and documenta							
Product	packaging material i packaging material i packaging material i	ype(s): cushion we	eight (kg): eight (kg): eight (kg):	0.0435				
P13.2* Product	plastic primary pack	aging is free from PVC.				\boxtimes		
	luct primary corruga er recovered fiber co		ng, specif	y the contained	percentage of minimum p	ost-		
	media for user and pronic, ⊠Paper, □	roduct documentation (ti Other	ick box):					
Ùser and		em if paper documentation on paper media is c		ee:				
,	hlorine-free al chlorine-free							
Process	ed chlorine-free							
P14 Volunta	ry programs							
P14.1 The prod	duct meets the requi	rements of the following	voluntary	program(s):				
ENERG Eco-labe Eco-labe		Criteria version: 8.0 Criteria version: Criteria version:	I	Date: 2020/11/2 Date: Date:	Product category: NB2 Product category: Product category:			
	nal information (Se							
					e tested product configur			
informat knowled	ion contained in this ge available at the ti here is approximato	document. All information me of completion, and su	on provide upplier sha	d by supplier in t all have no oblig	ies whether express or impl this document is provided ba ation to update such informa e a Lenovo Account Repres	ased on suppation. The inf	olier's formati	on
		otebooks & Tablet Comp dex.cfm?fuseaction=find				-		_

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

Lenovo ErP Lot3 Information Sheet - PC / Notebook -

As required by 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 (ErP Lot3).

Products scope of this sheet:

Desktop computer, integrated desktop computer, and notebook computer

This document is only valid in connection with the IT Eco Declaration of the specific Product.

Commercial name	IdeaPad 5 14ALC05, Lenovo 小新 Air 14ALC 2021, Lenovo 小新 14ALC 2021	Logo
Model Number	82LM	Lonovo
Issue Date	2020/11/24	Lenovo
Additional information		

d)	Year of manufacture:					
					2021	
e)	Etec value (kWh) per ErP Lot 3 Catego disabled and if the system is tested with				cards (dGfx) are	
")	Etec value (kWh) per ErP Lot 3 Categorianable	ry and capability adjust	ments applied when a	Ill discrete graphics o	cards (dGfx) are	
		Category A (according to ErP Lot 3)	Category B (according to ErP Lot 3)	Category C (according to ErP Lot 3)	Category D (according to ErP Lot 3)	
	Memory over base [GB]	16				
ents sting	Additional internal storage	No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)	
capability adjustments applied during testing	Discrete television tuner	No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)	
ability a	Discrete Audio Card	No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)	
сар	Discrete graphics Card(s) [number / #]	No #: (Yes / No)	#: (Yes / No)	#: (Yes / No)	#: (Yes / No)	
	Category of discrete graphics Card(s)	NA				
esults	Etec Value (kWh) - dGfx disabled all discrete graphics cards (dGfx) are disabled/ UMA is active for switchable graphics/ product has no graphics cards (dGfx)	10.02				
Test results	Etec Value (kWh) - dGfx enabled all discrete graphics cards (dGfx) are enabled					
1)	Idle state power demand (Watts);				2.85	
1)	Sleep mode power demand (Watts);				0.67	
)	Sleep mode with WOL enabled power d	emand (Watts) (where	enabled);		0.67	
)	Off mode power demand (Watts);				0.37	
κ)	Off mode with WOL enabled power dem	and (Watts) (where en	abled);		0.37	
)	Internal power supply efficiency at 10 %	, 20 %, 50 % and 100 °	% of rated output pow	er (if applicable):		
	10% 20% 50%	100% Avera	age			
n)	External power supply efficiency (if appli	icable)*:				
	Average active efficiency: 90.69%					
	*internal note: show values for all available external p					
o)	Minimum number of loading cycles that	the batteries can withst	tand (applies only to n	otebook computers):	300	
o-1)	Measurement methodology used to determine information mentioned in points (I) – internal PSU efficiency: NA					
p-2)	Measurement methodology used to dete					

(p-3) Measurement methodology used to determine information mentioned in points (o) – loading cycles batteries: >70% of Cmin						
	odology used to determine information mentioned in r Point P9.1 in the Product IT Eco Declaration: IEC 62623	naximum, idle, sleep, off mode				
(q) Sequence of steps for	or achieving a stable condition with respect to power Power on -> Wait 5 minutes -> Stable con					
(r) Description of how s	leep and/or off mode was selected or programmed:	naraon .				
(i) Becompain or now o	Begin menu -> Power -> Select sleep or o	off mode				
(s) Sequence of events off mode:	required to reach the mode where the equipment au	tomatically changes to sleep and/or				
	Energy-star requirement					
	te condition before the computer automatically re s not exceed the applicable power demand requirement		10 min			
(u) Length of time afte	r a period of user inactivity in which the compute wer power demand requirement than sleep mode (in	r automatically reaches a power	NA			
	ore the display sleep mode is set to activate after		10 min			
	nergy-saving potential of power management function					
	Refer to User Guide					
(x) User information on	how to enable the power management functionality:					
	Refer to User Guide					
	measurements: — test voltage in V and frequency in system, — information and documentation on the insting: 230V50HZ-2%-Edition 2.0, 2011-01, Section 4	strumentation, set-up and circuits				
Additional Notebook Batter	ry Information:					
	Battery[ies] <u>not</u> user replaceable	Battery[ies] user replaceable	n/a			
	The battery[ies] in this product cannot be easily replaced by users themselves. 1)					
Internal/built-in Battery						
External/detachable Battery						
Bios Backup Battery						
Other:						
Additional information						

The battery[ies] in this product cannot be easily replaced by users themselves.
 Акумулаторната[ите] батерия[и] в този продукт не може да се замени[ят] лесно от самите потребители.

Las baterías de este producto no pueden ser sustituidas fácilmente por los propios usuarios.

Výměnu baterie/baterií v tomto výrobku by neměli provádět sami uživatelé. Brugeren kan ikke uden videre udskifte batteriet/batterierne i dette produkt.

Der Akku/die Akkus dieses Produkts kann/können nicht ohne weiteres vom Benutzer selbst ausgetauscht werden.

Kasutajad ei saa selle toote akut/akusid ise hõlpsasti asendada. Η μπαταρία[-ες] στο προϊόν αυτό δεν μπορούν να αντικατασταθούν εύκολα από τους ίδιους τους χρήστες

La/les batterie(s présente(s) dans ce produit ne peuvent être facilement remplacée(s) par les utilisateurs eux-mêmes. Korisnik ne može lako zamijeniti Bateriju sam u ovom proizvodu.

La batteria/le batterie in questo prodotto non può/possono essere facilmente sostituita/e dall'utente.

Lietotāji paši nevar nomainīt šā ražojuma akumulatoru(-us). Šio gaminio baterijos [baterijų] pats vartotojas negali lengvai pakeisti. A termék akkumulátorát/akkumulátorait a felhasználó nem tudja egyedül egyszerűen kicserélni.

II-batterija/batteriji f dan ii-prodott ma tistax/jistgħux tiġi/jiġu sostitwita/i mill-utenti stess. Batteriet [ene] i dette produktet kan ikke lett erstattes av brukerne selv. De batterij(en) in dit product is (zijn) door de gebruiker niet gemakkelijk vervangbaar.

Użytkownik nie może sam w łatwy sposób wymienić baterii w tym produkcie.
A ou as baterias deste produto não podem ser facilmente substituídas pelos próprios utilizadores.
Bateria (bateriile) din acest produs nu poate (pot) fi ușor înlocuită (înlocuite) de utilizatorii înșiși.

Batériu(-ie) v tomto výrobku nemôže vymieňať používateľ. Baterij/baterije v tem izdelku uporabniki sami ne morejo zlahka zamenjati.

Tämän tuotteen akku [akut] ei[vät] ole helposti käyttäjän vaihdettavissa.

Det är inte enkelt för kunden att själv byta ut batteriet/batterierna. Bu üründeki batarya(lar) kullanıcılar tarafından kolaylıkla değiştirilemez.