



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 alcarter@lenovo.com	Lenovo.
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 *	Portable Computer Tablet				
Commercial name *	Lenovo TAB 7 Essential				
Model number *	ZA30,ZA31,ZA32,ZA33				
Issue date *	2017.8.10				
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 * Issue date *	ZA30,ZA31,ZA32,ZA33 2017.8.10	Logo	Lenovo.
Product environ	mental attributes - Legal requirements		Requirement met
Item			Yes No na

Product	environmental attributes - Legal requirements	Require	men	t 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).	\boxtimes		
	Comment: Legal reference has no maximum concentration value.			
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC),	\boxtimes		
	hydrobromofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1-			
	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	\square		
1 1.4	terphenyl (PCT) in preparations (see legal reference).		Ш	
P1.5*	Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the	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	(<u> </u>		
	(see legal reference).			
D4 7*	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): http://www.lenovo.com/social_responsibility/us/en/environment.html	\boxtimes		Ш
DO.	<u> </u>			
P2	Batteries (It is a later of the		_	_
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 lega	I 🔀		
	reference)			
P2.3*	Batteries and accumulators are readily removable. (See legal reference)	\boxtimes		
P3	Conformity verification & Eco design (ErP)			
P3.1*	The product is CE-marked to show conformance with applicable legal requirements (see legal reference).	\boxtimes		
	The Declaration of Conformity can be requested at (add link or e-mail address):			
P3.2*	The product complies with the Eco design requirements for energy-related products,	\boxtimes		
	(see legal reference).			
	Required information is; given in item P15 or added to this document,	X		Ш
_	available at (add URL):			
P5	Product packaging			
P5.1*	Packaging and packaging components do not contain more than 0,01% lead, mercury, cadmium ar hexavalent chromium by weight of these together.	id 🔀		
P5.2*	The packaging materials are marked with abbreviations and numbers indicating the nature of the material(s) 🔀		$\overline{}$
F J.2	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).			
P6	Comment: Legal reference has no maximum concentration values. Treatment information			
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).			
1 0.1	information for recycles a cautient 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 *	ZA30,ZA31,ZA32,ZA33	Logo	Lanava	
Issue date *	2017.8.10		Leliovo	

Product	environmental attributes - Market requirements (See General NOTE GN below)			
		Require	ment	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			
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.			\boxtimes
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).	\boxtimes		
	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: 3 years			
P7.10	Service is available after end of production for: 1 years			
	Material and substance requirements			
P7.11*	Product cover/housing material type (e.g. plastics, metal, aluminum):			
5= 10	Material type: PC Material type: C7701			
P7.12	Insulation materials of external electrical cables are PVC free.	<u>L</u> _		Щ
P7.13	Insulation materials of internal electrical cables are PVC free.		\boxtimes	
P7.14	External plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 0,1%		\boxtimes	
	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.	,		
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)	<i>'</i>		
P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: Marking: >PC-GF20FR(25)<	\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: DOPO , CAS #: 35948-25-5	\boxtimes	Ш	ш
	Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4: ISO 1043-4: FR(40)			
	. , ,		Ш	
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: Potassium nonafluoro-1-butanesulfonate, CAS #: 29420-49-3 (See NOTE B4)		Ш	ш
	2. Chemical name: , CAS #: " CAS #:			
	3. Chemical name: , CAS #: "			
	Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4:>PC-GF20FR(25)<			
P7.19	In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been	\boxtimes		
	assigned the following Risk phrases; R36/37/38 and Hazard statements: \$26,\$36	_	_	_
	The source(s) for these classifications is/are found at (add URL(s)):			
	http://www.chemicalbook.com/CASEN_29420-49-3.htm, (See note B5)			
P7.20*	Postconsumer recycled plastic material content is used in the product (See Note B6):		\boxtimes	
	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 %. or b) The weight of recycled material is 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.

wodei nun	nber "	•	131,ZA32,ZA33			Logo	Lenovo
Issue date	*	2017.8.1	0				LCHOVO
Product 6	environm	nental at	tributes - Market re	equirements (contir	nued)		Requirement met
Item				(Yes No n.a.
	Material	and subs	stance requirements	(continued)			
P7.21*				in the product (See NC	OTE B7):		
		-			•		
				s below shall be answe	rea; naterial content (calculat	ed as a nerce	entage
			by weight) is %		naterial content (calculat	eu as a pero	enage
	or	rtai piaotic	by worghing to the	·•			
	b) The	weight of	the biobased plastic n	naterial is g.			
P7.22*				less than 0,1 mg/lamp.			
			specify: Number of lan	nps: and maximu	um mercury content per la	amp: n	ng
P8	Batteries						
P8.1*			omposition: Li-ion Pol	lymer			
P9			tion (See NOTE B8)				
P9.1		roduct the		s or energy consumption		2 . (and the second second
Energy mo	ae *		Power level at 100 V AC	Power level at 115 V AC		Reference/Sta	andard for energy st method *
Peak (On-i	max)		5 W	5 W	5 W	Full load	
-							
Category	y <u> 1</u>						
Short Idle	State - Wo	OL	1.44 W	1.43 W	1.90 W	Jse for ENE	RGY STAR V6
Enabled					, , , , , , , , , , , , , , , , , , ,	egistration (P idle)
Long Idle	Ctoto IA/C	<u> </u>	1.45 W	1.83 W	1.49 W	loo for ENE	RGY STAR V6
Enabled	State - WC)L	7.45 VV	1.03 VV		egistration (
Lilabied					•	egistration (· Idle/
Sleep (S3)	- WOL Er	abled	W	W	W	Jse for ENER	RGY STAR V6
,						egistration(l	
01 (02)	WOL D		1.02 W	0.65 W	0.7 W		
Sleep (S3)	- WOL DI	Sabied	1.02 VV	0.05 VV	U.7 VV	Reference	
Off (S5) - V	VOL Enab	led	W W				
					<i> </i>	registration(l	off)
Off (S5) - V	VOL Disal	bled	0.58 W	0.57 W	0.63 W	Jse for ErP	
			W	W	W	Reference	
						\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
EPS No-loa			0.035 W	0.038 W	0.071 W		
(External power s wall outlet but disc	supply / charger p connected from t	olugged in the he product.)					
PTEC *			W	W	W		
Typical Ene	ergy Consi	umption					_
ETEC *	•		1.08 kWh/year	0.982 kWh/year			1000) x (P _{off} x 0.25
Annual Ene	ergy Consu	ımption				P _{sleep} x 0.35 P _{short_ldle} x 0.3	+ P _{long_ldle} x 0.10+
			P.#: Off Mode(\$5) - WO	l Di Fnahled: P: Sleen	Mode(S3) - WOL Enabled;		
External Po	ower Supp	lv Efficien		Efficiency Marking Pro		Tale. Tare State	
		<u> </u>	megapixels		1000.)		
			ve mode: 1 minutes		1 1		
P9.2*				on is provided with the p	product.		
P9.3			class (monitors only):				
P10	Emission						
D40.4				ISO 9296 (See NOTE		and the first	and named to the (B)
P10.1	Mode	I N	Mode description		statistical upper limit A	-weighted so	und power level, L _{WA,c} (B)
	Idle						
	Operation				*		
	Other mo			d pressure level (dB) L_{pAm}		on desktop – i	dle)
	Other mo	de	eclared A-weighted sound	d pressure level (dB) $L_{p{\sf Am}}$	(operator positi	on desktop – d	operating)
	Measure			ECMA-74	1		
	IVICASUIE	a accordi	Other	(only if not covered by	ECMA-74)		
	1			(only if flot covered by	LUNIA-14)		

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 no	umber *	ZA30,ZA31,ZA32	2,ZA33		Logo	Long	21/0	
Issue da	te *	2017.8.10				Lend		TM
Produc	t environr	nental attributes	s - Market requirements	s (continued)		Require	ement	met
Item						Yes	No	n.a.
	Electron	magnetic emissio	ıs					
P10.4	program	(s):	e requirement for low freque	ency electromagnetic fields	s of the following volun	ntary		
P12		mics for computir						
P12.1*	The disp	lay meets the ergo	nomic requirements of ISO	9241-307 for visual displa	y technologies.	\boxtimes		
P12.2*	The phy	sical input device n	neets the requirements of IS	O 9995 and ISO 9241-41	0.	\boxtimes		
P13	Packaging and documentation							
P13.1*	Product Product	packaging materia	type(s): paper(manual) type(s): PP weight (kg): 0	ght (kg): 0.15 weight (kg): 0.06 .002				
P13.2*	Product	plastic primary pac	kaging is free from PVC.			\boxtimes		
P13.3*		duct primary corruger recovered fiber of	gated fiberboard packaging content: %	, specify the contained p	percentage of minimur	n post-		\boxtimes
P13.4*		media for user and ronic, ⊠Paper, ☐	product documentation (ticl Other	k box):				
P13.5	Ùser and		item if paper documentatior tation on paper media is ch					
	Totally o	hlorine-free				\bowtie		
	Element	al chlorine-free						
	Process	ed chlorine-free						
P14	Volunta	ry programs						
P14.1	The prod	duct meets the requ	uirements of the following vo	oluntary program(s):				
	ENERG Eco-labe Eco-labe		Criteria version: 6.1 Criteria version: Criteria version:	Date: 2014-9-10 Date: Date:	Product category: <i>I1</i> Product category: Product category:			
P15	Addition	nal information (S	ee NOTE B10)		<u> </u>			
P9	Energy	consumption of s	pecific configuration may	vary; description of the	tested product confi	guration:		
	informat knowled provided informat	ion contained in thi ge available at the I here is approxima ion.	representations, guarantees s document. All information time of completion, and sup te and provided for informat	provided by supplier in thi plier shall have no obligat tional purposes only. See	s document is provide ion to update such info a Lenovo Account Rep	d based on sup ormation. The ir	plier's nformat	iion
P9			Notebooks & Tablet Compu ndex.cfm?fuseaction=find_a					

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	Lenovo TAB 7 Essential	Logo
Model Number	ZA30,ZA31,ZA32,ZA33	Lanava
Issue Date	2017.8.10	Lenovo
Additional information	Low-voltage equipment is an exception for ERP	

	Product environmental attributes						
d)	Year of manufacture:				2017		
(e)	Etec value (kWh) per ErP Lot 3 Catego disabled and if the system is tested with				cards (dGfx) are		
(f)	Etec value (kWh) per ErP Lot 3 Category and capability adjustments applied when all discrete graphics cards (dGfx) are enable						
		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]	2					
ents	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 (Discrete Audio Card	No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)		
capa	Discrete graphics Card(s) [number / #]	No #: (Yes / No)	#: (Yes / No)	#: (Yes / No)	#: (Yes / No)		
	Category of discrete graphics Card(s)	No					
Test results	Etec Value (kWh) - dGfx disabled all discrete graphics cards (dGfx) are disabled/ UMA is active for switchable graphics/ product has no graphics cards (dGfx)	1.12					
Test r	Etec Value (kWh) - dGfx enabled all discrete graphics cards (dGfx) are enabled						
(g)	Idle state power demand (Watts);				1.9		
(h)	Sleep mode power demand (Watts);				0.7		
(i)	Sleep mode with WOL enabled power de	emand (Watts) (where	enabled);				
j)	Off mode power demand (Watts);				0.05		
(k)	Off mode with WOL enabled power dem	and (Watts) (where en	abled);				
(1)	Internal power supply efficiency at 10 %,	20 %, 50 % and 100 °	% of rated output pow	er (if applicable):			
	10% 20% 50%	100% Avera	ige				
(m)	External power supply efficiency (if appli	cable)*:					
	Average active efficiency: 72.39						
	*internal note: show values for all available external po						
(o)	Minimum number of loading cycles that t	he batteries can withs	tand (applies only to r	notebook computers):	300		
(p-1)	Measurement methodology used to dete	rmine information mer	ntioned in points (I) – i	nternal PSU efficiency	:		
(p-2)	Measurement methodology used to dete						

(p-3) Mea	 Measurement methodology used to determine information mentioned in points (o) – loading cycles batteries: 0.5C Charge/Discharge 					
		dology used to determine information mentioned in notine to the Point P9.1 in the Product IT Eco Declaration: ENERGY STAR Test Method for Computers, Research				
(q) Sec	Sequence of steps for achieving a stable condition with respect to power demand:: ENERGY STAR Test Method for Computers, Rev. Aug-2010					
		eep and/or off mode was selected or programmed: agement, sleep mode: ACPI system level G1/S3 (ACPI system level G2/S5 ('soft off') s				
	mode:	required to reach the mode where the equipment auter to power management, 1 mins automatically re				
con	dition which does	e condition before the computer automatically renot exceed the applicable power demand requirement	ents for sleep mode (in minutes):	1		
		a period of user inactivity in which the compute ver power demand requirement than sleep mode (in		NA		
		re the display sleep mode is set to activate after		1		
		ergy-saving potential of power management function refer to user manual				
(x) Use	er information on h	now to enable the power management functionality: refer to user manual				
the		neasurements: — 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 No	otebook Batter					
		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. $^{\rm 1)}$				
Internal/built-i	n Battery					
External/detac	chable Battery					
Bios Backup E	Battery					
Other:						
Additional info	rmation					
Akymynaτορματα[μπ. Las baterías de este Výměnu baterie/bate Brugeren kan ikke u Der Akku/die Akkus Kasutajad ei saa sel h μπαταρία[-ες] στο La/les batteria(-ες] στο La/les batteria/le batteria Lietotāji paši nevar π. Šio gaminio baterijos A termék akkumulát Il-batterija/batterija/batteriji fo Batteriat [ene] i dette De batterid [ene] i dette De batterij(en) in dit Użytkownik nie możr A ou as baterias des Bateria (bateriile) dir Batériu(-ie) v tomto saterij/baterije v tem Tämän tuotteen akku Det är inte enkelt för	e] Ğaтерия[и] в този г producto no pueden : producto no pueden : priri v tomto výrobku by den videre udskiffe ba dieses Produkts kann, le toote akut/ákusid is προϊόν αυτό δεν μπογ sente(s) dans ce producto a zamijeniti Bateriju s e io a majeniti Bateriju se io majeniti Bateriju pate sa produkte is producto na io mainīti šā ražojuma a s [bateriju] pats vartoto prát/ákkumulátorait a l data il-prodott ma tistax e produktet kan ikke le product is (zijn) door ce sam w latwy sposób šte produto nāo podem a acest produs nu poavýrobku nemôže vymie i zdeliku uporabniki sa u [akuti] el[väti] ole help kunden att själv byta	ojas negali lengvai pakeisti. elhasználó nem tudja egyedül egyszerűen kicserélni. //jistgħux tiġi/jiġu sostitwita/i mill-utenti stess. tt erstattes av brukerne selv. le gebruiker niet gemakkelijk vervangbaar. wymienić baterii w tym produkcie. n ser facilmente substituídas pelos próprios utilizadores. te (pot) fi uşor înlocuită (înlocuite) de utilizatorii înşişi.	werden.			