



ECMA/TC38-TG3/2015/026 (Rev. 1 – 27 Feb 2019)

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	Log	0		
Company name *	Lenovo				
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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 *	ThinkBook 13x ITG			
Model number *	20WJ			
Issue date *	2021/4/29			
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 nu	mber *	20WJ	Logo	Long	N/6	
Issue date	e *	2021/4/29		Lend	JVC) тн
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	B1)	\boxtimes		
P1.2*		s do not contain Asbestos (see legal reference). nt: Legal reference has no maximum concentration value.				
P1.3*	hydrobro trichloroe	s 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 maration values.				
P1.4*		s do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polych (PCT) in preparations (see legal reference).	orinated			
P1.5*	Products	s 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 th	e 🔀		
P1.6*	Parts wit	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/weel	(
P1.7*	REACH https://v	Article 33 information about substances in articles is available at (add URL or mail owww.lenovo.com/us/en/Lenovo-REACH-SVHC-Disclosure	contact):			
P2	Batterie					
P2.1*	symbol.	oduct 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)	·			
P2.2*	Batteries reference	s or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadme)	ium. (See lega	I 🖂		
P2.3*	Batteries	s and accumulators are readily removable. (See legal reference)		\boxtimes		
P3	Conforn	nity verification & Eco design (ErP)		<u> </u>		
P3.1*	The Dec	duct is CE-marked to show conformance with applicable legal requirements (see legal requirements) (see legal requirements	al reference).			
P3.2*	The prod	duct complies with the Eco design requirements for energy-related products, al reference).				
	Required	d information is;				
P5		packaging				
P5.1*	Packagii	ng and packaging components do not contain more than 0,01% lead, mercury ent chromium by weight of these together.	, cadmium ar	nd 🔀		
P5.2*	The pack	kaging materials are marked with abbreviations and numbers indicating the nature of the legal reference).	of the material(s) 🔀		
P5.3*	The prod	duct packaging material is free from ozone depleting substances as specified in the N al reference). nt: Legal reference has no maximum concentration values.	Iontreal Protoc	ol 🔀		
P6	Treatme	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 *	20WJ	Logo	Lanova
Issue date *	2021/4/29		LEI IOVO"

Product env	vironmental attributes - Market requirements (See General NOTE GN below)			
	nvironmental conscious design Requir			
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.	Щ.		
P7.3*	Plastic parts > 100 g consist of one material or of easily separable materials.		Ц_	
P7.4*	Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.			
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: 5 years			
P7.10	Service is available after end of production for: 5 years			
	Material and substance requirements			
P7.11*	Product cover/housing material type (e.g. plastics, metal, aluminum):			
P7.12	Material type: PC+ABS+15%Talc Material type: PC+ABS Material type: Magnesium Insulation materials of external electrical cables are PVC free.	<u>n</u>		_
		<u> </u>		
P7.13	Insulation materials of internal electrical cables are PVC free.	Щ.		Щ.
P7.14	External plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 0,1% weight (1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, and		\boxtimes	
	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		\boxtimes	
D7.10	as defined in IEC 61249-2-21. (See 1NOTE B2)			
P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: Marking: >PC+ABS<, >PC+ABS-TD15FR(40)<	\boxtimes	Ш	
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:, CAS #:	\boxtimes		
	Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g			
	according ISO 1043-4: FR(16)	\boxtimes		
P7.18				
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: , CAS #: (See NOTE B4)		ш	
	2. Chemical name: , CAS #: "	\boxtimes		
	3. Chemical name: , CAS #: "			
	Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4: FR(40)			
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; No signal word and Hazard statements: H411 Toxic to aquatic life			
	with long lasting effects			
	The source(s) for these classifications is/are found at (add URL(s)): European Council Directive			
	67/548/EEC (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 3.6%.			
	or			
	b) The weight of recycled material is 15.3 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.

Issue date *	20WJ 2021/4/29	Logo	Len	ovc)
Product environn	nental attributes - Market requirements (continued)		Requir	emen	t met
Item			Yes	No	n.a.

11 2

-							
	Material and subs	stance requirements	(continued)				
P7.21*	Biobased plastic m	naterial content is use	d in the product (See N	NOTE B7):			
	If YES; at least one of the two alternatives below shall be answered; a) Of total plastic parts' weight > 25 g, the biobased plastic material content (calculated as a percentage of total plastic by weight) is %. or b) The weight of the biobased plastic material is g.						
P7.22*			less than 0,1 mg/lamp				
		specify: Number of la	mps: and maxin	num mercury content p	er lamp: mg		
P8 P8.1*	Batteries	amana aiti anu 1 ithiu na					
	,	composition: Lithium	ion				
P9		tion (See NOTE B8)	I	dana ana mananta di			
P9.1			els or energy consumpt		Tp (/0/ 1 1 f		
Energy mo	ode *	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		
Catego	ry 2						
Short Idle	State - WOL Enabled	5.07 W	5.35 W	5.21 W	Use for ENERGY STAR V8.0 registration (Pidle)		
Long Idle S	State - WOL Enabled	3.17 W	3.23 W	3.20 W	Use for ENERGY STAR V8.0 registration		
Sleep (S3) Disabled	- WOL Enabled /	0.38 W	0.38 W	0.39 W	Use for ENERGY STAR V8.0 registration		
Off (S5) - V Disabled	VOL Enabled /	0.38 W	0.38 W	0.39 W	Use for ENERGY STAR V8.0 registration / ErP		
plugged in t	od ower supply / charger the wall outlet but ed from the product.)	0.0413W	0.0541W	0.0441 W			
PTEC * Typical Ene	ergy Consumption	W	W	W		\boxtimes	
ETEC *	ergy Consumption	18.10 kWh/year	18.89 kWh/year	18.54 kWh/year	E _{TEC} = (8760/1000) x (P _{off} x 0.25 + P _{sleep} x 0.35 + P _{long_idle} x 0.10 + P _{short_idle} x 0.30)		
P _{off} : Off Mode(S5) - WOL Enabled; P _{sleep} : Sleep Mode(S3) - WOL Enabled; P _{idle} : Idle State - WOL Enabled							
External Power Supply Efficiency Level (International Efficiency Marking Protocol) *: VI							
	Display resolution *: 2560*1600 megapixels						
Default time to enter energy save mode: 30 minutes							
P9.2*	Information about	the energy save funct	ion is provided with the	e product.			
P9.3	Energy efficiency of	class (monitors only):				\boxtimes	

NOTE B8 A Guidance document on Energy Efficiency is available;

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

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 emission	Noise emission – Declared according to ISO 9296 (See NOTE B9)						
P10.1	Mode	Mode description	Statistical upper limit A-weighted sound power level, $L_{WA,c}$ (B)					
	Idle	* System Idle	* 1.7					
ĺ	Operation	* CPU;Operation	* 5.4					
	Other mode	Declared A-weighted sound pressure level (dB) $L_{p m Am}$	19.0 (operator position desktop – idle)					
	Other mode	Declared A-weighted sound pressure level (dB) $L_{p m Am}$	32 (operator position desktop – operating)					
	Measured according to: ☐ ISO 7779 ☐ ECMA-74							
		Other (only if not covered b	y ECMA-74)					

Model number *	20WJ	Logo	Lanava
Issue date *	2021/4/29		Lei IOVO.

	<u>environmental attributes - M</u>	Market requirements (con	tinued)	ı	Require		met
Item					Yes	No	n.a.
	Electromagnetic emissions						
P10.4	Computer display meets the req program(s): MPR-II(3 pin AC ac		ectromagnetic fields	of the following voluntary			
P12	Ergonomics for computing pr	roducts					
P12.1*	The display meets the ergonom	nic requirements of ISO 9241-3	307 for visual display	technologies.	\boxtimes		
P12.2*	The physical input device meets	s the requirements of ISO 999	5 and ISO 9241-410).	\boxtimes		
P13	Packaging and documentation	n					
P13.1*	Product packaging material type Product packaging material type Product packaging material type	e(s): Polyethylene Cushions	weight (kg): w/ ODD weight (kg): w/o ODD:0.008kg	g): 0.41kg			
P13.2*	Product plastic primary packagii	ing is free from PVC.			\boxtimes		
P13.3*	For product primary corrugated consumer recovered fiber conte	ent: 70 %	ify the contained p	ercentage of minimum post-	-		
P13.4*	Specify media for user and prod Electronic, Paper, Oth						
P13.5	(Please only complete this item User and product documentation If Yes, please specify:						
	Totally chlorine-free Elemental chlorine-free						
	Processed chlorine-free						
P14	Voluntary programs						
P14.1	The product meets the requirem	nents of the following voluntary	/ program(s):				
	Eco-label: C	criteria version: 8.0 criteria version: criteria version:	Date: 2021/03/31 Date: Date:	Product category: 12 Product category: Product category:			
P15	Additional information (See N						
P9	Energy consumption of speci						
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P9	See Energy Star Qualified Notel http://www.energystar.gov/index						
	http://www.energystar.gov/index	x.om::luseaction=iiiu_a_prou	dot.3nowr roudctGr	Jupupgw_code=CO			

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	ThinkBook 13x ITG	Logo	
Model Number	20WJ		Lonovo
Issue Date	2021/4/29		Lenovo.
Additional information			

)	Year of manufacture:				2021	
:)	Etec value (kWh) per ErP Lot 3 Catego disabled and if the system is tested with	switchable graphics n	node with UMA driving	g the display.	, ,	
)	Etec value (kWh) per ErP Lot 3 Categor enable	y and capability adjust	tments applied when a	all discrete graphics	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)	
capability adjustments applied during testing	Memory over base [GB]	1024GB	(doodraing to Eii Eot o)	(adderaing to En Ect o)	(docording to Life Eat o)	
	Additional internal storage	No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)	
	Discrete television tuner	NO (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)	
ability a lied du	Discrete Audio Card	NO (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)	
cap	Discrete graphics Card(s) [number / #]	NO #: (Yes / No)	#: (Yes / No)	#: (Yes / No)	#: (Yes / No)	
	Category of discrete graphics Card(s)	NA				
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)	15.30				
	Etec Value (kWh) - dGfx enabled all discrete graphics cards (dGfx) are enabled					
)	Idle state power demand (Watts);					
)	Sleep mode power demand (Watts);					
	Sleep mode with WOL enabled power demand (Watts) (where enabled);					
	Off mode power demand (Watts);					
)	Off mode with WOL enabled power demand (Watts) (where enabled);					
	Internal power supply efficiency at 10 %,	20 %, 50 % and 100 °	% of rated output pow	er (if applicable):		
	10% 20% 50%	100% Avera	age			
)	External power supply efficiency (if appli	cable)*:				
	Average active efficiency: 65w:88.45%,	88.64%, 88.53%, 8	89.42%, 89.44%			
)	*internal note: show values for all available external power supplies Minimum number of loading cycles that the batteries can withstand (applies only to notebook computers):					
-1)	Measurement methodology used to dete				300 cycles	

(p-2)	Measurement methodology used to determine information mentioned in points (m) – external PSU efficiency: ENERGY STAR® Program Requirements for Single Voltage External Ac-Dc and Ac-Ac Power Supplies Eligibility Criteria (Version 2.0)						
(p-3)	Measurement metho	hodology used to determine information mentioned in points (o) – loading cycles batteries: <i>≥</i> 70% of Cmin					
(p-4)		thodology used to determine information mentioned in maximum, idle, sleep, off mode in Point P9.1 in the Product IT Eco Declaration:					
	IEC 62623						
(q)	Sequence of steps for achieving a stable condition with respect to power demand::						
Power on -> Wait 5 minutes -> Stable condition							
(r)	Description of how sleep and/or off mode was selected or programmed:						
		Begin menu -> Power -> Select sleep or o	off mode				
(s)	Sequence of events required to reach the mode where the equipment automatically changes to sleep and/or off mode: <i>NA</i>						
(t)	Duration of idle state condition before the computer automatically reaches sleep mode, or another condition which does not exceed the applicable power demand requirements for sleep mode (in minutes):						
(u)	Length of time after a period of user inactivity in which the computer automatically reaches a power mode that has a lower power demand requirement than sleep mode (in minutes):						
(v)	Length of time before the display sleep mode is set to activate after user inactivity (in minutes): 10min						
(w)	Information on the er	nergy-saving potential of power management function	nality: <i>Refer to User Guide</i>				
(x)	User information on how to enable the power management functionality: Refer to User Guide						
(z)	Test parameters for measurements: — test voltage in V and frequency in Hz, — total harmonic distortion of the electricity supply system, — information and documentation on the instrumentation, set-up and circuits used for electrical testing:						
230V50HZ-2%-Edition 2.0, 2011-01, Section 4, IEC62301							
Additiona	al Notebook Batter	y 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.

Asymynatophatajniej oarepnnjej bi oznatnijovajni neodysti ne woke da ce samennja i jiecho o camini. Las baterias 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.

Il-batterija/batteriji f'dan il-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.