

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				
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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 *	Type of product * Notebook						
Commercial name *	IdeaPad Flex 3 Chromebook 11						
Model number *	82BB						
Issue date *	2020-3-19						
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 *	82BB Logo			
Issue da	te *	2020-3-19	Leng	JVC) TH
Product	t environ	mental attributes - Legal requirements	Require	ment	met
Item			Yes	No	n.a.
P1		us substances and preparations			
P1.1*	Products	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, carbontetrachloride, 1,1,1- othane, methyl bromide (see legal reference). Comment: Legal reference has no maximum ation values.			
P1.4*	terpheny	do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated I (PCT) in preparations (see legal reference).	\boxtimes		
P1.5*		do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the ntaining at least 48% per mass of chlorine in the SCCP (see legal reference).	ie 🔀		
P1.6*	Parts with direct and prolonged skin contact do not release nickel in contractions above $0.5 \ \mu g/cm^2/week$ (see legal reference). 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): ww.lenovo.com/us/en/Lenovo-REACH-SVHC-Disclosure			
P2	Batterie	5			
P2.1*		duct contains a battery or an accumulator, the battery/accumulator is labeled with the disposal nformation on proper disposal is provided in user manual. (See legal reference)	\boxtimes		
P2.2*	Batteries reference	or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See lega	al 🖂		
P2.3*	Batteries	and accumulators are readily removable. (See legal reference)	\boxtimes		
P3	Conforn	ity verification & Eco design (ErP)			
P3.1*	The proc	uct is CE-marked to show conformance with applicable legal requirements (see legal reference). aration of Conformity can be requested at: https://www.lenovo.com/us/en/compliance/eu-doc	\boxtimes		
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/eco-declaration	\boxtimes		
P5	Draduet				
P5.1*		packaging ng and packaging components do not contain more than 0,01% lead, mercury, cadmium ar	nd 🔽		
13.1		nt chromium by weight of these together.	nd 🔀		
P5.2*	The pacl	aging materials are marked with abbreviations and numbers indicating the nature of the material(e legal reference).	s) 🔀		
P5.3*	The proc (see lega	uct packaging material is free from ozone depleting substances as specified in the Montreal Protoc Il reference).	ol 🔀		
		t: 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 nu	ımber *	82BB	Logo	Lon		
Issue dat	te *	2020-3-19		Len	ovc	
Product		mental attributes - Market requirements (See General NOTE GN	below)			
		nmental conscious design		Require		
Item P7		tory to fill in. Additional information regarding each item may be found under P14.		Yes	No	n.a.
P7.1*		Disassembly, recycling t have to be treated separately are easily separable		\square		
P7.2*		aterials 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		<u> </u>	<u> </u>
P7.6*		re easily separable. (This requirement does not apply to safety/regulatory labels).			╞	╞
17.0	Product					
P7.7*		g can be done e.g. with processor, memory, cards or drives				
P7.8*		g can be done using commonly available tools			┢	⊢⊢
P7.9		rts are available after end of production for: 5 years				H
P7.10		s available after end of production for: 5 years				┢
		and substance requirements				
P7.11*		cover/housing material type (e.g. plastics, metal, aluminum):				
			al type:			
P7.12		n materials of external electrical cables are PVC free.			\boxtimes	
P7.13		n materials of internal electrical cables are PVC free.			\boxtimes	
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 n 25% post-consumer recycled content.	e retardants, an	d 🗖		
P7.15	Printed c	ircuit boards, PCBs (without components) are low halogen: all PCBs > 25 g d in IEC 61249-2-21. (See 1NOTE B2)	are low haloge	n 🗌	\square	
P7.16	Flame re	tarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: >PC+ABS-TD15FR(40)<		\square		
P7.17		nemical specifications of flame retardants in printed circuit boards > 25 g (without c A (additive), TBBPA (reactive) (See NOTE B3), Other: <i>Brominated epoxy</i> 3-7				
		nemical specifications of flame retardants in printed circuit boards (without compon- 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%: cal name: BPADP , CAS #: 181028-79-5 (See NOTE B4) cal name: , CAS #: "	es/preparations i	in 🔀		
		cal name: , CAS #: "	0.4		_	
P7.19		nemical specifications of flame retardants in plastic parts > 25 g according ISO 104 parts > 25 g, flame retardant substances/preparations above 0,1% are used which		<u> </u>		
P7.19	•	the following Risk phrases; and Hazard statements:	i nave been		\bowtie	
	•		See note B5)			
P7.20*		sumer recycled plastic material content is used in the product (See Note B6):			\square	
	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 conter ercentage of total plastic by weight) is <i>0</i> %. weight of recycled material is <i>0</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 *	82BB	Logo	
Issue date *	2020-3-19		Leiiovo.

Product environmental attributes - Market requirements (continued)

Item

Requirement met

'es	No	n.a.	
'es	No	n.a.	

	Material and sub	stance requirements	(continued)		
P7.21*			d in the product (See N	OTE B7):	
	If YES; at least or	e of the two alternative	es below shall be answe	ered;	
	a) Of total plast	ic parts' weight > 25 g,	the biobased plastic m		ted as a percentage of
	total plastic t or	by weight) is %.			
		of the biobased plastic i	material is g.		
P7.22*	Light sources are	free from mercury, i.e.	less than 0,1 mg/lamp.		
	If mercury is used	specify: Number of lar	mps: and maxim	um mercury content pe	
P8	Batteries				
P8.1*	,	composition: Lithium i	on		
P9 P9.1		otion (See NOTE B8)	ls or energy consumption	ons are reported:	
Energy mo		Power level at	Power level at	Power level at	Reference/Standard for energy
		100 V AC	115 V AC	230 V AC	modes and test method *
Peak (On-	max)	45 W	45 W	45 W	Full load
Categor	<u>y I1-</u>				
Short Idle	State - WOL	2.44 W	2.45 W	2.50 W	Use for ENERGY STAR V8.0
Enabled					registration (P _{idle})
Long Idle	State - WOL	0.32 W	0.32 W	0.36 W	Use for ENERGY STAR V8.0
Enabled					registration (P _{idle})
Sleep (S3)	- WOL Disabled	0.32 W	0.32 W	0.36 W	Reference
Off (S5) - 1	WOL Disabled	0.41 W	0.41 W	0.46 W	Use for ErP
EPS No-loa	ad	0.02 W	0.02 W	0.06 W	
	supply / charger plugged in the connected from the product.)		0.02 11	0.00 11	
wall outlet but dis	connected from the product.)	17.89 W	17.89 W	17.89 W	
	ergy Consumption				
ETEC *	_	8.6 kWh/year	8.6 kWh/year	9.0 kWh/year	E _{TEC} = (8760/1000) x (P _{off} x 0.25
Annual Ene	ergy Consumption				+ P _{sleep} x 0.35 + P _{long_Idle} x 0.10+ P _{short Idle} x 0.30)
		Poff: Off Mode(S5) - W	OL Enabled: Psleep: Sleep	Mode(S3) - WOL Enable	ed; P _{idle} : Idle State - WOL Enabled
External Po	ower Supply Efficie		I Efficiency Marking Pro		
Display res	solution * : 1366*76	8 megapixels			
Default tim	e to enter energy s	ave mode: 30 minutes			
P9.2*	Information about	the energy save functi	on is provided with the	product.	
P9.3	Energy efficiency	class (monitors only):			
P10	Emissions				
			ISO 9296 (See NOTE	B9)	
P10.1		Mode description			t A-weighted sound power level, <i>L_{WA,c}</i> (B)
	Idle	* System Idle		* 17.1	
	Operation	* CPU;Operation	1	* 16.1	
	Other mode	Declared A-weighted soun	d pressure level (dB) $L_{p{ m Ar}}$	n (operator pos	sition desktop – idle)
	Other mode	Declared A-weighted soun	d pressure level (dB) L_{pAr}	n (operator pos	sition desktop – operating)
	Measured accord	ing to: 🔀 ISO 7779 🗌	ECMA-74		
		Other	(only if not covered by	ECMA-74)	

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 <u>http://www.ecma-international.org/publications/standards/Ecma-370.htm</u>

NOTE B9 A Guidance document on Acoustic Noise is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

Model nu	ımber *	82BB					Logo				
Issue dat	te *	2020-3-19				Le		enovo.			
Product	environ	nental attribut	tes - Market requirer	nents (cor	tinued)			Re	quire	ment	met
Item									Yes	No	n.a.
		magnetic emiss									
P10.4	Comput program		the requirement for low	frequency el	ectromagnetic field	s of the foll	owing volunt	tary			\square
P12		mics for compu									
P12.1*	The disp	olay meets the er	gonomic requirements c	of ISO 9241-	307 for visual displa	ay technolo	gies.		\boxtimes		
P12.2*	The phy	sical input device	e meets the requirement	s of ISO 999	5 and ISO 9241-41	10.					
P13	Packag	ing and docume	entation								
P13.1*	Product Product	packaging mater	ial type(s): <i>carton</i> ial type(s): <i>paper</i>	weight (kg weight (kg weight (kg	j): 0.01002						
P13.2*			ackaging is free from P						\square		
P13.3*	For product primary corrugated fiberboard packaging, specify the contained percentage of minimum post- consumer recovered fiber content: 90%										
P13.4*	Specify	media for user ar ronic, 🔀Paper,	nd product documentation	on (tick box):							
P13.5	Ùser an		is item if paper documer entation on paper media								
	,	hlorine-free							\square		
	Element	al chlorine-free									
	Process	ed chlorine-free									
P14	Volunta	ry programs									
P14.1	The pro	duct meets the re	equirements of the follow	ving voluntar	y program(s):						
	ENERG Eco-labe Eco-labe		Criteria version: 8. Criteria version: Criteria version:	0	Date: 2020-2-17 Date: Date:	Product	category: 1 category: category:				
P15			(See NOTE B10)		Bulo.	TTOULOU	outogory.				
P9			f specific configuration	n mav varv:	description of the	tested pr	oduct confic	uration.			
	NOTE: S informat knowled	Supplier makes n ion contained in ge available at th I here is approxir	o representations, guara this document. All inform he time of completion, an nate and provided for in	antees, assunation provid	rances or warrantie led by supplier in th hall have no obliga	es whether is documer tion to upda	express or in nt is provided ate such info	nplied, re based o rmation.	gardin n supp The inf	olier's format	ion
P9	See Ene	ergy Star Qualifie	d Notebooks & Tablet C v/index.cfm?fuseaction=				_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	IdeaPad Flex 3 Chromebook 11IGL05	Logo	
Model Number	82BB		
Issue Date	2020-3-19		Lenovo
Additional information			

(d)	Year of manufacture:				2018
(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 Catego enable	ry and capability adjust	tments applied when a	Ill 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
	Memory over base [GB]	8GB			
ents sting	Additional internal storage	NO (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)
adjustm ring tes	Discrete television tuner	NO (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)
capability adjustments applied during testing	Discrete Audio Card	NO (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)
capi app	Discrete graphics Card(s) [number / #]	NO #: (Yes / No)	#: (Yes / No)	#: (Yes / No)	#: (Yes / No)
	Category of discrete graphics Card(s)				
sults	Etec Value (kWh) - dGfx disabled all discrete graphics cards (dGfx) are disabled/ UMA is active for switchable graphics/ product has no graphics cards (dGfx)				
Test results	Etec Value (kWh) - dGfx enabled all discrete graphics cards (dGfx) are enabled				
(g)	Idle state power demand (Watts);	1			3.74
(h)	Sleep mode power demand (Watts);				0.45
(i)	Sleep mode with WOL enabled power d	emand (Watts) (where	enabled);		
(j)	Off mode power demand (Watts);				0.36
(k)	Off mode with WOL enabled power dem	nand (Watts) (where en	abled);		
(I)	Internal power supply efficiency at 10 %	, 20 %, 50 % and 100	% of rated output pow	er (if applicable):	
	10% 20% 50%	100% Avera	age		
(m)	External power supply efficiency (if appl	icable)*:			
	Average active efficiency: 85.71%, 82.6	61%, 87.80%			
	*internal note: show values for all available external p				
(o)	Minimum number of loading cycles that	the batteries can withs	tand (applies only to n	otebook computers):	300
(p-1)	Measurement methodology used to dete	ermine information mer	ntioned in points (I) – i	nternal PSU efficiency	

	dology used to determine information mentioned in p rogram Requirements for Single Voltage Externa Eligibility Criteria (Version 2.0)						
(p-3) Measurement metho	Measurement methodology used to determine information mentioned in points (o) – loading cycles batteries: ≥70% of Cmin						
	Measurement methodology used to determine information mentioned in maximum, idle, sleep, off mode power as defined in Point P9.1 in the Product IT Eco Declaration: IEC 62623						
(q) Sequence of steps for	or achieving a stable condition with respect to power Power on -> Wait 5 minutes ->Stable condition						
(r) Description of how s	leep and/or off mode was selected or programmed: Begin menu -> Power -> Select sleep or o	ff mode					
(s) Sequence of events off mode:	required to reach the mode where the equipment au	tomatically changes to sleep and/or					
condition which does	te condition before the computer automatically re s not exceed the applicable power demand requirement or provided of users in activity in which the computer	ents for sleep mode (in minutes):	30min				
	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):						
	Length of time before the display sleep mode is set to activate after user inactivity (in minutes):						
(w) Information on the er	nergy-saving potential of power management functio Refer to User Guide	nality:					
(x) User information on	how to enable the power management functionality: <i>Refer to User Guide</i>						
the electricity supply used for electrical te	230V50HZ-2%-Edition 2.0, 2011-01, Section 4	strumentation, set-up and circuits					
Additional Notebook Batter			n/a				
	Battery[ies] not user replaceable The battery[ies] in this product cannot be easily replaced by users themselves. ¹⁾	Battery[ies] user replaceable	n/a				
Internal/built-in Battery							
External/detachable Battery							
Bios Backup Battery							
Other:							
Additional information							
as baterías de este producto no pueden s ýměnu baterie/baterií v tomto výrobku by rugeren kan ikke uden videre udskifte bat	родукт не може да се замени[ят] лесно от самите потребител er sustituidas fácilmente por los propios usuarios. neměli provádět sami uživatelé. teriet/batterierne i dette produkt. können nicht ohne weiteres vom Benutzer selbst ausgetauscht w						
μπαταρία[-ες] στο προϊόν αυτό δεν μπορ a/les batterie(s présente(s) dans ce produ orisnik ne može lako zamijeniti Bateriju sa	ούν να αντικατασταθούν εύκολα από τους ίδιους τους χρήστες it ne peuvent être facilement remplacée(s) par les utilisateurs eu	x-mêmes.					

La batteria/le batterie in questo prodotio non può/possono essere facilmente sostituita/e dall'utente Lietotäji paši nevar nomaint šã ražojuma akumulatoru(-us). Šio gaminio baterijos [bateriju] 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 milI-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 latwy 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 uşor înlocuită (înlocuite) de utilizatorii înşişi. Baterij/baterije v tem izdelku uporabniki sami ne morejo zlahka zamenjati. Tämän tuotteen akku fakutī elivătī ole helposti käyttäjän vaihdettavissa.

Tämän tuoteen 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.

Annex B1 of ECMA-370 5th edition (Lenovo) 2015-04-08