

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				
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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 *	Lenovo Flex 5G-14/Yoga 5G-14				
Model number *	82AK, 81XE				
Issue date *	2020/3/13				
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 *	82AK, 81XE Logo	lon		
Issue da	ite *	2020/3/13	Leng		D _{TH}
Produc	t environ	mental attributes - Legal requirements	Require	ment	t met
ltem			Yes	No	n.a.
P1		ous substances and preparations			
P1.1*	Products	do comply with current European RoHS Directive. (See legal reference and NOTE B1)	\square		
P1.2*	Comme	s do not contain Asbestos (see legal reference). nt: Legal reference has no maximum concentration value.	\boxtimes		
P1.3*	hydrobro trichloro	s do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), pmofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachloride, 1,1,1- ethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum ration values.	\square		
P1.4*		do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated (PCT) in preparations (see legal reference).	\boxtimes		
P1.5*		s 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).	•		
P1.6*	(see leg	th direct and prolonged skin contact do not release nickel in concentrations above 0,5 μg/cm²/week al reference). nt: 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	\boxtimes		
P2	Batterie	S			
P2.1*		oduct contains a battery or an accumulator, the battery/accumulator is labeled with the disposal Information on proper disposal is provided in user manual. (See legal reference)	\boxtimes		
P2.2*	Batteries referenc	s or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal e)	\boxtimes		
P2.3*	Batteries	and accumulators are readily removable. (See legal reference)	\boxtimes		
P3	Conform	nity verification & Eco design (ErP)			
P3.1*		duct is CE-marked to show conformance with applicable legal requirements (see legal reference). laration of Conformity can be requested at: <u>https://www.lenovo.com/us/en/compliance/eu-doc</u>	\boxtimes		
P3.2*	The proc (see leg	duct complies with the Eco design requirements for energy-related products, al reference).	\boxtimes		
		d information is; given in item P15 or added to this document, available at: https://www.lenovo.com/us/en/compliance/eco-declaration	\boxtimes		
P5	Product	packaging			
P5.1*	Packagi	ng and packaging components do not contain more than 0,01% lead, mercury, cadmium and ent chromium by weight of these together.	d 🔀		
P5.2*	The pac	kaging materials are marked with abbreviations and numbers indicating the nature of the material(s le legal reference).)		
P5.3*	The proc (see leg	uct packaging material is free from ozone depleting substances as specified in the Montreal Protocc al reference). nt: Legal reference has no maximum concentration values.	ol 🔀		
P6		nt information			

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 *		82AK, 81XE	Logo			
Issue da	te *	2020/3/13		Len	ovo	Этн
Product	t environ	mental attributes - Market requirements (See General NOTE GN	below)			
		onmental conscious design		Require		met
Item		tory to fill in. Additional information regarding each item may be found under P14.		Yes	No	n.a.
P7.1*		Disassembly, recycling It have to be treated separately are easily separable				
P7.2*		naterials in covers/housing have no surface coating.			<u> </u>	╞
P7.3*		arts > 100 g consist of one material or of easily separable materials.			╞	
P7.4*	•		<u> </u>			
P7.5	•	arts > 25 g have material codes according to ISO 11469 referring ISO 1043-4. arts are free from metal inlays or have inlays that can be removed with commonly a	available tools		<u> </u>	
P7.6*	-	re easily separable. (This requirement does not apply to safety/regulatory labels).			<u> </u>	╞
F7.0	Product					
P7.7*		ing can be done e.g. with processor, memory, cards or drives				
P7.8*		ng can be done using commonly available tools		<u> </u>		╞
P7.9		arts are available after end of production for: 5 years				╞
P7.10		s available after end of production for: 5 years				╞
17.10		and substance requirements				
P7.11*		cover/housing material type (e.g. plastics, metal, aluminum):				
	Material	type: Aluminum Material type: MgAI Materia	al type:			
P7.12	Insulatio	n materials of external electrical cables are PVC free.			\boxtimes	
P7.13	Insulatio	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	e retardants, ar	nd		
D7 15		In 25% post-consumer recycled content.	1			
P7.15	as define	errcuit boards, PCBs (without components) are low halogen: all PCBs > 25 g din IEC 61249-2-21. (See 1NOTE B2)	-	en 🛛		
P7.16	Marking:					\square
P7.17		nemical specifications of flame retardants in printed circuit boards > 25 g (without c		\boxtimes		
	TBBF	PA (additive), ☐TBBPA (reactive) (See [№] TE B3),⊠Other: <i>DOPO</i> , CAS #: 35948	-25-5			
	accordin	nemical specifications of flame retardants in printed circuit boards (without compon- g ISO 1043-4:				\boxtimes
P7.18		ame retarded plastic parts > 25 g contain the following flame retardant substance ations above 0,1%:	es/preparations	in 🗖		
	1. Chem 2. Chem	ical name: , CAS #: (See NOTE B4) ical name: , CAS #: " ical name: , CAS #: "				
	<u>Alt. 2: </u> Cł	nemical specifications of flame retardants in plastic parts > 25 g according ISO 104	3-4:			\bowtie
P7.19	In plastic	parts > 25 g, flame retardant substances/preparations above 0,1% are used which	h have been			
	assigned	I the following Risk phrases; and Hazard statements:				
			See note B5)			
P7.20*	Postcons	sumer recycled plastic material content is used in the product (See Note B6):			\boxtimes	
	a) Oft ape 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> %. e weight of recycled material is <i>0</i> g.	nt (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 *	82AK, 81XE	Logo	
Issue date *	2020/3/13		Lenovo
Product environm	nental attributes - Market requirements (continued)		Requirement met

Item

Requirement met

Yes	No	n.a.

	Material and sub	stance requirements	(continued)			
P7.21*		material content is used		OTE B7):		
	-					
		ne of the two alternative			ated as a percentage of	
	total plastic l				and as a percentage of	
	or	, , , , , , , , , , , , , , , , , , , ,				
		of the biobased plastic i				
P7.22*		free from mercury, i.e.				
P8	Batteries	l specify: Number of lar	mps: and maxim	num mercury content pe	er lamp: mg	
P8.1*		composition: Li-ion Po	lymer			
P9	,	•	iyinci			
P9.1		otion (See NOTE B8) the following power level	ls or energy consumpti	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						
Calego						
Short Idle	State - WOL	2.68 W	2.68 W	2.79 W	Use for ENERGY STAR V8.0	
Enabled					registration (P _{idle})	
Long Idle	State - WOL	1.26 W	1.23 W	1.35 W	Use for ENERGY STAR V8.0	
Enabled					registration (P _{idle})	
Sleep (S3)) - WOL Enabled	1.26 W	1.23 W	1.35 W	Use for ENERGY STAR V8.0	
					registration (P _{sleep})	
Off (S5) -	WOL Enabled	0.59 W	0.59 W	0.66 W	Use for ENERGY STAR V8.0	
··· (···)					registration (P _{off})	
05 (05)		0.50.10/	0.50 \\/	0.0010/		
0π (55) -	WOL Disabled	0.59 W	0.59 W	0.66 W	Use for ErP	
EPS No-lo	ad	0.033 W	0.046 W	0.082 W		
(External power wall outlet but di	supply / charger plugged in the sconnected from the product.)					
PTEC *		W	W	W		
Typical En	ergy Consumption					
ETEC *		13.30 kWh/year	13.18 kWh/year	14.10 kWh/year	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.25)$	
Annual En	ergy Consumption				+ P _{sleep} x 0.35 + P _{long_ldle} x 0.10+ P _{short} Idle x 0.30)	
		Port: Off Mode(S5) - W	OL Enabled: Peleen: Slee	n Mode(S3) - WOL Enable	ed; P _{idle} : Idle State - WOL Enabled	
External P	ower Supply Efficie	ncy Level (Internationa				
	solution * : 1920*10	, ,				
		ave mode: 10 minutes			+	
	0,		on in provided with the	product		
P9.2*		the energy save functi	on is provided with the	product.		
P9.3		class (monitors only):				
P10	Emissions	Declared second's st				
P10.1		– Declared according to Mode description	0 150 9296 (See NOT		it A-weighted sound power level, L _{WA,c} (B)	
1-10.1		* Idle		* 2.6		
	Operation * CPU Operating * 2.8 Other mode Declared A-weighted sound pressure level (dB) L _{pAm} 18.5 (operator position desktop – idle)					
					oosition desktop – idle)	
	Other mode	Declared A-weighted soun	d pressure level (dB) L_{pA}	m 20.2 (operator)	position desktop – operating)	
	Measured accord	ing to: 🔀 ISO 7779 🔀	ECMA-74	1		
		Other	(only if not covered by	(ECMA-74)		
L	L			/		

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

Model nu	mber *	82AK, 81XE						Logo				
Issue date *		2020/3/13					Le	Lenovo				
Product	environ	mental attribut	tes - Market	requirer	nents (cor	ntinued)			Rec	uirer	nent	met
Item									```	Yes	No	n.a
		magnetic emissi										
P10.4	Compute program	er display meets n(s):	the requireme	ent for low	frequency e	lectromagnetio	fields of the fol	lowing volunta	ry			
P12		Ergonomics for computing products										
P12.1*	The disp	play meets the er	gonomic requi	irements o	f ISO 9241-	307 for visual	display technolo	ogies.			\boxtimes	
P12.2*	The phy	sical input device	e meets the re	quirement	s of ISO 999	95 and ISO 92	41-410.				\boxtimes	
P13	Packagi	ing and docume	entation							_		
P13.1*	Product	Product packaging material type(s): gift box weight (kg): 0.357 Product packaging material type(s): pp bag weight (kg): 0.009 Product packaging material type(s): carton weight (kg): 0.300										
P13.2*	Product	plastic primary p	ackaging is fre	ee from P	/C.					\boxtimes		
P13.3*		duct primary cor er recovered fibe			kaging, spe	cify the contai	ned percentage	e of minimum	post-			
P13.4*		media for user ar ronic, XPaper,		cumentatio	on (tick box)	:						
P13.5	Úser an	only complete th d product docum lease specify:										
	Totally c	hlorine-free										
		al chlorine-free								H		
	Process	ed chlorine-free								H		
P14	Volunta	ry programs								<u> </u>		
P14.1		duct meets the re	equirements of	f the follow	ving voluntar	ry program(s):						
	ENERG	Y STAR®	Criteria v	version: V	3.0	Date: 2020/2	/25 Product	category: NB2	2			
	Eco-labe		Criteria v			Date:		category:				
	Eco-labe		Criteria v			Date:	Product	category:				
P15		nal information		_								
P9		consumption of										
	informat knowled	Supplier makes n ion contained in t ge available at th there is approxir ion.	this document	. All inform	nation provid	ded by supplies shall have no c	r in this docume bligation to upd	nt is provided in a te such inforr	based on nation. T	suppl	Íier's ormat	ion
P9	See Ene http://wv	ergy Star Qualifie vw.energystar.go	d Notebooks & v/index.cfm?fu	& Tablet C useaction=	omputers fo find_a_proc	or the latest info duct.showProc	ormation: uctGroup&pgw_	_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	Lenovo Flex 5G 14Q8CX05, Yoga 5G 14Q8CX05	Logo	
Model Number	82AK, 81XE		
Issue Date	2020/3/13		Lenovo
Additional information			

P7.1.1	Product environmental attributes							
(d)	Year of manufacture:				2020			
(e)	Etec value (kWh) per ErP Lot 3 Catego disabled and if the system is tested with				cards (dGfx) are			
	2	0 1						
(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]	8						
lents 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)			
cap app	Discrete graphics Card(s) [number / #]	No #: (Yes / No)	# <i>:</i> (Yes / No)	# <i>:</i> (Yes / No)	#: (Yes / No)			
	Category of discrete graphics Card(s)							
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)	6.5						
Test	Etec Value (kWh) - dGfx enabled all discrete graphics cards (dGfx) are enabled							
(g)	Idle state power demand (Watts);				1.21			
(h)	Sleep mode power demand (Watts);				1.21			
(i)	Sleep mode with WOL enabled power de	emand (Watts) (where	enabled);		1.21			
(j)	Off mode power demand (Watts);				0.43			
(k)	Off mode with WOL enabled power dema	and (Watts) (where en	abled);		0.43			
(I)	Internal power supply efficiency at 10 %,	20 %, 50 % and 100 °	% of rated output powe	er (if applicable):				
	10% 20% 50%	100% Avera	age					
(m)	External power supply efficiency (if appli	cable)*:						
	Average active efficiency: 85.71%, 82.61	1%, 87.80%						
(-)	*internal note: show values for all available external po		hand (analise and the a					
(o)	Minimum number of loading cycles that t	ne patteries can withs	tand (applies only to h	olebook computers):	300			
(p-1)	(p-1) Measurement methodology used to determine information mentioned in points (I) – internal PSU efficiency: NA							

(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	Measurement methodology used to determine information mentioned in points (o) – loading cycles batteries: ≥70% of Cmin							
(p-4)		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 <i>Power on -> Wait 5 minutes ->Stable co</i>							
(r)	Description of how s	leep and/or off mode was selected or programmed: 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						
(t) (u)	condition which does	te condition before the computer automatically restored the applicable power demand requirem r a period of user inactivity in which the compute	ents for sleep mode (in minutes):	30min					
(3)	mode that has a lov	wer power demand requirement than sleep mode (ir	n minutes):	NA					
(v)		ore the display sleep mode is set to activate after		10min					
(w)	Information on the e	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>							
(z)	the electricity supply used for electrical te	230V50HZ-2%-Edition 2.0, 2011-01, Section 4	strumentation, set-up and circuits						
Additio	nal Notebook Batter		Pottor (ical upor rankapachia	n/a					
		Battery[ies] <u>not</u> user replaceable The battery[ies] in this product cannot be easily replaced by users themselves. ¹⁾	Battery[ies] user replaceable	Ti/a					
Internal/	/built-in Battery								
Externa	I/detachable Battery								
Bios Ba	ckup Battery								
Other:									
Addition	al information	•							
		asily replaced by users themselves. родукт не може да се замени[ят] лесно от самите потребите.	ли						
is baterías o	de este producto no pueden s	er sustituidas fácilmente por los propios usuarios. neměli provádět sami uživatelé.	IVI.						
ugeren kan	ikke uden videre udskifte bat	teriet/batterierne i dette produkt. können nicht ohne weiteres vom Benutzer selbst ausgetauscht v							
asutajad ei s	saa selle toote akut/akusid ise	e hõlpsasti asendada.	verden.						
		ιούν να αντικατασταθούν εύκολα από τους ίδιους τους χρήστες iit ne peuvent être facilement remplacée(s) par les utilisateurs eu	ıx-mêmes.						
orisnik ne m	lože lako zamijeniti Bateriju sa								
etotāji paši r	nevar nomainīt šā ražojuma a	kumulatoru(-us).							
termék akku		elhasználó nem tudja egyedül egyszerűen kicserélni.							
atteriet [ene]] i dette produktet kan ikke let								
e batterij(en) in dit product is (zijn) door d	e gebruiker niet gemakkelijk vervangbaar. wymienić baterii w tym produkcie.							
ou as bateri	ias deste produto não podem	ser facilmente substituídas pelos próprios utilizadores.							
	ille) din acest produs nu poat tomto výrobku nemôže vymie	e (pot) fi ușor înlocuită (înlocuite) de utilizatorii înșiși. ňať používateľ.							

Baterii/(-ie) v tomto vyrosku nemoze vymienat pouzivatei. Baterii/baterije v tem izdelku uporabniki sami ne morejo zlahka zamenjati. Tämän tuotteen akku [akut] el[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.