



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	Log	0
Company name *	Lenovo		
Contact information *	Lenovo Global Environmental Affairs		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 *	Lenovo Yoga S740-15/IdeaPad S740-15/IdeaPad S740-15 Touch/Lenovo 小新 Pro-15 2019					
Model number *	81NX, 81NY, 81NW, 81V2					
Issue date *	2019/7/20					
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	ımber *	81NX, 81NY, 81NW, 81V2	Logo	Lone		
Issue dat	te *	2019/7/20		Lend		J _{tm}
Product	environ	mental attributes - Legal requirements		Require	men	t met
Item				Yes	No	n.a.
P1	Hazardo	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 trichloro	s do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), omofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrachethane, methyl bromide (see legal reference). Comment: Legal reference has no mation values.				
P1.4*		s do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polych vl (PCT) in preparations (see legal reference).	lorinated			
P1.5*		s do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carl ntaining at least 48% per mass of chlorine in the SCCP (see legal reference).	oon atoms in th	ie 🔀		
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/weel	k 🔀		
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	s				
P2.1*		oduct contains a battery or an accumulator, the battery/accumulator is labeled with land Information on proper disposal is provided in user manual. (See legal reference)	the disposal			
P2.2*	Batteries referenc	s or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadme)	nium. (See lega	al 🔀		
P2.3*	Batteries	s and accumulators are readily removable. (See legal reference)		\boxtimes		
P3	Conforn	nity verification & Eco design (ErP)				
P3.1*		duct is CE-marked to show conformance with applicable legal requirements (see legal requirements) delaration of Conformity can be requested at: https://www.lenovo.com/us/en/compliar				
P3.2*	The prod	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,				
DE	D	a valuable att. mapelly millione vereening aby engineering manee, a	eco-aeciaration			
P5.1*		packaging	v oodmium or	2d 🔽	_	
P5.1"		ng and packaging components do not contain more than 0,01% lead, mercur ent chromium by weight of these together.	y, cadmium ar	nd 🔀		
P5.2*	The pac	kaging materials are marked with abbreviations and numbers indicating the nature be legal reference).	of the material(s) 🔀		
P5.3*	The prod (see lega	duct packaging material is free from ozone depleting substances as specified in the Nal reference). In the standard of the Naterial is free from ozone depleting substances as specified in the Naterial in the Nat	Montreal Protoc	ol 🔀		
P6		nt information				
P6.1*		on for recyclers/treatment facilities is available (see legal reference).		\square		

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 *	81NX, 81NY, 81NW, 81V2	Logo	Lanova
Issue date *	2019/7/20		LEI IOVO"

Product	environmental attributes - Market requirements (See General NOTE GN below)			
		equire	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.		Щ.	
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):			
D7 40	Material type: Aluminum 5052 Material type: Covestro FR3002 Material type: FR630GR Insulation materials of external electrical cables are PVC free.			
P7.12				
P7.13	Insulation materials of internal electrical cables are PVC free.		Щ.	<u> </u>
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	Ш	Ш
	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)		Ш	
P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: Marking: FR(40)			
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: <i>Epoxy resin flame retardant/DOPO</i> , CAS #:		Ш	Ш
	Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4: FR(40) and FR(16)		Ш	Ш
P7.18	$\underline{\text{Alt. 1:}}$ Flame retarded plastic parts > 25 g contain the following flame retardant substances/preparations in			
	concentrations above 0,1%:		\boxtimes	
	1. Chemical name: , CAS #: (See NOTE B4) 2. Chemical name: , CAS #: "			
	3. Chemical name: , CAS #: "			
	Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4:FR(40)	\square		
P7.19	In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been			
1 1.10	assigned the following Risk phrases; and Hazard statements:	ш		
	The source(s) for these classifications is/are found at (add URL(s)): (See note B5)			
P7.20*	Postconsumer recycled plastic material content is used in the product (See Note B6):	X		
	INVEQ at least one of the transition of an half-radial behavior and	_		
	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 3.38 %.			
	or			
	b) The weight of recycled material is 8.3 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.

Model number *	81NX, 81NY, 81NW, 81V2	Logo	Lonovo
Issue date *	2019/7/20		Leilovo

Product environmental attributes - Market requirements (continued)	Requi	remer	nt met
Item	Yes	No	n.a.

	Material and sub	stance requirements	(continued)			
P7.21*	Biobased plastic n	naterial content is used	in the product (See No	OTE B7):		
		c parts' weight > 25 g,	es below shall be answe the biobased plastic m	ered; aterial content (calculat	ed as a percentage of	
	b) The weight o	f the biobased plastic r				
P7.22*		free from mercury, i.e. specify: Number of lar	less than 0,1 mg/lamp. nps: and maxim	um mercury content pe	r lamp: mg	
P8	Batteries					
P8.1*		composition: <i>lithium-ic</i>	on			
P9		tion (See NOTE B8)				
P9.1	For the product the		s or energy consumption		Tp ()0; 1 1 (
Energy mo		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)	135 W	135 W	135 W	Full load	
Categor	y NBI2					
Short Idle Enabled	State - WOL	5.77 W	5.54 W	5.70 W	Use for ENERGY STAR V6 registration (P _{idle})	
Long Idle Enabled	State - WOL	2.32 W	2.80 W	2.28 W	Use for ENERGY STAR V6 registration (P _{idle})	
Sleep (S3)	- WOL Enabled	0.79 W	0.75 W	0.87 W	Use for ENERGY STAR V6 registration(P _{sleep})	
Sleep (S3)	- WOL Disabled	0.79 W	0.75 W	0.87 W	Reference	
Off (S5) - I	WOL Enabled	0.34 W	0.34 W	0.38 W	Use for ENERGY STAR V6 registration(Poff)	
Off (S5) - 1	WOL Disabled	0.34 W	0.34 W	0.38 W	Use for ErP	
EPS No-loa (External power s wall outlet but dis	ad supply / charger plugged in the connected from the product.)	0.091 W	0.094 W	0.134 W		
ETEC *	ergy Consumption	20.36 kWh/year	20.06 kWh/year	20.48 kWh/year	E _{TEC} = (8760/1000) x (P _{off} x 0.25 + P _{sleep} x 0.35 + P _{long_ldle} x 0.10+ P _{short_ldle} x 0.30)	
					d; P _{idle} : Idle State - WOL Enabled	
External Po	ower Supply Efficier	ncy Level (International	Efficiency Marking Pro	otocol) * : VI		
Display res	solution * : 3840*21	60 megapixels				
Default time	e to enter energy sa	ave mode: 10 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			
P10.1		Mode description			A-weighted sound power level, $L_{WA,c}$ (<u>B)</u>
		Idle		* 2.7		<u>Ц</u>
	Operation *	CPU Operating		* 3.7		
			d pressure level (dB) $L_{p{\sf Am}}$		sition desktop – idle)	· <u></u>
	Other mode	Declared A-weighted soun	d pressure level (dB) L_{pAm}		sition desktop – operating)	
	Measured accordi	ng to: 🔀 ISO 7779 🔀	ECMA-74			
1	1	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 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 nur	nber *	81NX, 81NY, 81NV	V, 81V2		Logo	Long	V/0	
Issue date	*	2019/7/20				Leno	VO	н
Product	environn	nental attributes	- Market requirement	s (continued)		Require	ment	met
Item			•	,		Yes	No	n.a.
		nagnetic emissions						
P10.4	Compute program		requirement for low frequ	ency electromagnetic fields	s of the following voluntary	У		
P12		mics for computing						
P12.1*	The disp	lay meets the ergon	omic requirements of ISC	9241-307 for visual displa	y technologies.		\boxtimes	
P12.2*	The phys	sical input device me	ets the requirements of I	SO 9995 and ISO 9241-41	0.		\boxtimes	
P13		ng and documenta						
P13.1*	Product	packaging material t packaging material t packaging material t	ype(s): <i>paper</i> we	ight (kg): 1.089 ight (kg): 0.022 ight (kg): 0.112				
P13.2*	Product	plastic primary pack	aging is free from PVC.				\boxtimes	
P13.3*		luct primary corruga er recovered fiber co		g, specify the contained p	percentage of minimum p	ost-		
P13.4*			roduct documentation (tide) Other	ck box):				
P13.5	User and		em if paper documentatio ution on paper media is ch					
	•	hlorine-free al chlorine-free						
	Processe	ed chlorine-free						
P14	Voluntai	ry programs						
P14.1	The prod	duct meets the require	rements of the following v	oluntary program(s):				
	ENERGY Eco-labe Eco-labe		Criteria version: 7.1 Criteria version: Criteria version:	Date: 2019/7/3 Date: Date:	Product category: NB2 Product category: Product category:			
P15		nal information (Se	,					
P9				y vary; description of the				
	informati knowledg provided informati	on contained in this ge available at the till here is approximate on.	document. All information me of completion, and substant and provided for information.	s, assurances or warrantien provided by supplier in thi pplier shall have no obligate ational purposes only. See	is document is provided be tion to update such inform a Lenovo Account Repres	ased on supp ation. The inf	lier's ormat	ion
P9				uters for the latest informat a_product.showProductGr				

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 Yoga S740-15IRH, Lenovo IdeaPad S740-15IRH, Lenovo IdeaPad S740-15IRH Touch, Lenovo 小新 Pro-15 2019	Logo
Model Number	81NX, 81NY, 81NW, 81V2	Longue
Issue Date	2019/7/20	Lenovo
Additional information		

P7.1.1	Product environmental attributes				
(d)	Year of manufacture:				2019
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 Categor enable	y and capability adjust	ments applied when a	III 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]			16	
ents	Additional internal storage	(Yes / No)	(Yes / No)	No (Yes / No)	(Yes / No)
capability adjustments applied during testing	Discrete television tuner	(Yes / No)	(Yes / No)	No (Yes / No)	(Yes / No)
ability a lied du	Discrete Audio Card	(Yes / No)	(Yes / No)	No (Yes / No)	(Yes / No)
cap	Discrete graphics Card(s) [number / #]	#: (Yes / No)	#: (Yes / No)	Yes #: 1 (Yes / No)	#: (Yes / No)
	Category of discrete graphics Card(s)			G5	
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)				
Test re	Etec Value (kWh) - dGfx enabled all discrete graphics cards (dGfx) are enabled			92.3	
g)	Idle state power demand (Watts);	1		1	2.4
h)	Sleep mode power demand (Watts);				0.86
i)	Sleep mode with WOL enabled power de	emand (Watts) (where	enabled);		0.86
j)	Off mode power demand (Watts);				0.37
k)	Off mode with WOL enabled power dem	and (Watts) (where en	abled);		0.37
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: 89.88%, 91.	29%,90.46%			
o)	*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):				
	<i>.</i>		· · · ·	, ,	300
(p-1)	Measurement methodology used to dete	rmine information mer	ntioned in points (I) – in	nternal PSU efficiency	

(p-2) Measurement methodology used to determine information mentioned in points (m) – external PSU efficience ENERGY STAR® Program Requirements for Single Voltage External Ac-Dc and Ac-Ac Power State Eligibility Criteria (Version 2.0)					
(p-3)	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 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 off mode				
(s)	Sequence of events required to reach the mode where the equipment automatically changes to sleep and/or off mode:				
NA NA					
(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):			30min	
(u)	mode that has a lower power demand requirement than sleep mode (in minutes):			NA	
(v)	Length of time before the display sleep mode is set to activate after user inactivity (in minutes): 10min				
(w)	(w) Information on the energy-saving potential of power management functionality: **Refer to User Guide**				
(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					
Additional Notebook Battery Information:					
Addition	iai Notebook Batter	Battery[ies] not user replaceable	Battery[ies] user replaceable	n/a	
		The battery[ies] in this product cannot be easily replaced by users themselves. 1)	Dates y [.ee] aces replaceasie	1,70	
Internal/built-in Battery					
External/detachable Battery					
Bios Backup Battery					
Other:					
Additional information					
-					

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 tuottéen akku [akut] ei[vät] ole helposti käyttäjän vaihdettavissá. Det är inte enkelt för kunden att själv byta ut batteriet/batterierna.

Bu üründeki batarya(lar) kullanıcılar tarafından kolaylıkla değiştirilemez.

The battery[ies] in this product cannot be easily replaced by users themselves.