



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	
e-mail address	Alvin L Carter	
	1009 Think Place	Lenovo
	Building 2 / 5F1	
	Morrisville, North Carolina 27560	
	alcarter@lenovo.com	
Internet site *	www.lenovo.com	
Additional information		

The company declares (based on product specification or test results based obtained from sample testing), that the product						
conforms to the statemen	conforms to the statements given in this declaration.					
Type of product *	NB					
Commercial name *	Lenovo YOGA 920, Lenovo YOGA 920 Glass					
Model number *	80Y7, 80Y8					
Issue date *	2017/8/11					
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 *	80Y7;80Y8 2017/8/11	Logo	Lenovo.
Product environ	mental attributes - Legal requirements		Requirement met

Product	environmental attributes - Legal requirements R	equire	ment	met
Item	<u> </u>	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)			
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.			
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), 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 terphenyl (PCT) in preparations (see legal reference).			
P1.5*	Products do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 carbon atoms in the 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/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):			
P2	Batteries			
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 legal 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).			
	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, (see legal reference).			
	Required information is; given in item P15 or added to this document,			
	available at (add URL):			
P5	Product packaging			
P5.1*	Packaging and packaging components do not contain more than 0,01% lead, mercury, cadmium and hexavalent chromium by weight of these together.			
P5.2*	The packaging materials are marked with abbreviations and numbers indicating the nature of the material(s) used (see legal reference).			
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol (see legal reference).			
	Comment: Legal reference has no maximum concentration values.			
P6	Treatment information			
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	\boxtimes		

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 *	80Y7;80Y8	Logo	Lanava	
Issue date *	2017/8/11		Lei Iovo.	
<u> </u>				

Product environmental attributes - Market requirements (See General NOTE GN below)								
	- Environmental conscious design	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	\square						
P7.2*	Plastic materials in covers/housing have no surface coating.							
P7.3*	Plastic parts > 100 g consist of one material or of easily separable materials.							
P7.4*	Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.		Ħ					
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.		Ħ	Ħ				
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).		Ħ					
	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: AL6063 Material type: Material type: Insulation materials of external electrical cables are PVC free.							
P7.13	Insulation materials of internal electrical cables are PVC free.		X					
P7.14	External plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 0,1%		<u> </u>					
F7.14	weight (1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, and		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)							
P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: Marking:							
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:							
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)	\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:							
P7.19	In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been							
	assigned the following Risk phrases; and Hazard statements:							
	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):		Ш					
	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.

Model nun	nber *	80Y7;80	Y8			Logo	Langua
Issue date	*	2017/8/1	1				Lenovo
Product 6	environn	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 NO	OTE B7):		
	If YES: a	t least one	e of the two alternative	s below shall be answe	ered:		
	a) Of t	otal plasti	c parts' weight > 25 g,		material content (calculate	ed as a percentaç	ge
		otal plastic	by weight) is %				
	or b) The	weight of	the biobased plastic n	naterial is g.			
P7.22*	Light sou	rces are f	ree from mercury, i.e.	ess than 0,1 mg/lamp.			\square
			specify: Number of lam	nps: and maximu	um mercury content per la	amp: mg	
P8 P8.1*	Batteries		titan B	\- I			
			omposition: Li-ion P	oıymer			
P9			tion (See NOTE B8)	s or energy consumption	one are reported:		
Energy mo		roduct trie	Power level at	Power level at		Reference/Standa	rd for energy
Liloigy illo	uo		100 V AC	115 V AC		nodes and test me	
Peak (On-I	max)		65 W	65 W	65 W	Full load	
Category	y NBI1						
Short Idle	State - W	OL	10.3W	10.2 W	10.3 W	Reference	
Enabled							
Long Idle	State - Wo	OL	3.81W	3.78 W	3.82W	Reference	
Enabled							
Sleep (S3)	- WOL E	nabled	NA W	NAW	NA W	Reference	
Sleep (S3)	- WOL Di	sabled	0.83 W	<i>0.85</i> W	0.85 W	Reference	
Off (S5) - V	NOL Enal	oled	NA W	NAW	NAW I	Reference	
Off (S5) - V	NOL Disa	bled	0.34W	0.33 W	0.35W	Reference	
EPS No-loa			0.087W	0.090 W	0.091 W		
(External power s wall outlet but disc	supply / charger connected from	plugged in the the product.)					
PTEC *			W	W	W		
Typical Ene	ergy Cons	шприоп	33.71 kWh/year	33.48 kWh/year	33.82 kWh/year		
Annual Ene			•	,	•		
			cy Level (International	Efficiency Marking Pro	tocol) *:		
Display res	olution * :	3200*180	00 megapixels				
Default time			ve mode: 30 minutes				
P9.2*			0,	on is provided with the	product.		
P9.3	Energy e	fficiency o	class (monitors only):				
P10	Emissio						
	Noise emission – Declared according to ISO 9296 (See NOTE B9)						
P10.1	Mode		lode description		Statistical upper limit A	-weighted sound	power level, L _{WA,c} (B)
	Idle		Idle		* 2.6		<u> </u>
	Operatio		CPU Operating		*2.6		
	Other mo			1			
	Measure	d accordir	ng to: X ISO 7779	ECMA-74			
	<u> </u>		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 number *		80Y7;80Y8				Logo		opo	V/0	
Issue date *		2017/8/11						eno	VO.	*
Product of	environn	nental attribute	s - Market requirem	nents (cor	ntinued)		R	equire	ment	met
Item								Yes	No	n.a.
	Electron	nagnetic emissio	ns							
P10.4	program	(s):	e requirement for low f	requency e	lectromagnetic field	ds of the following v	oluntary			
P12		nics for computir								
P12.1*			nomic requirements of							\boxtimes
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.									
P13	Packagi	ng and documen	tation							
P13.1*	Product packaging material type(s): Paper Product packaging material type(s): EPE Product packaging material type(s): LDPE weight (kg): 0.120 weight (kg): 0.039									
P13.2*	Product	plastic primary pac	kaging is free from PV	C.						
P13.3*	For product primary corrugated fiberboard packaging, specify the contained percentage of minimum post-consumer recovered fiber content: 80 %									
P13.4*		media for user and onic, ⊠Paper, ☐	product documentatio Other	n (tick box):						
P13.5	Ùser and		item if paper documen ntation on paper media							
	•	hlorine-free al chlorine-free								
	Processe	ed chlorine-free						一		
P14	Voluntai	ry programs								
P14.1		, , 	uirements of the follow	ing voluntar	y program(s):					
	ENERGY Eco-labe Eco-labe		Criteria version: 6.1 Criteria version: Criteria version:	1	Date: 20176/20 Date: Date:	Product category Product category Product category	y:			
P15	Addition	nal information (S	ee NOTE B10)							
P9	Energy	consumption of s	pecific configuration	may vary;	description of the	e tested product c	onfiguratio	า:		

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 920, Lenovo YOGA 920 Glass	Logo	
Model Number	80Y7, 80Y8		Lonovo
Issue Date	2017/8/11		Lenovo
Additional information			

P7.1.1	Product env	rironmental a	ttributes					
(d)	year of ma	anufacture:					2017	
(e) (f)	Etec value (kWh) per ErP Lot 3 Category and capability adjustments applied when all discrete graphics cards (dGfx) are disabled and if the system is tested with switchable graphics mode with UMA driving the display. 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 ove	er base [GB]		16G	-			
ents ting	Additional in	ternal storage		No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)	
capability adjustments applied during testing	Discrete tele	evision tuner		No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)	
ability a	Discrete Aud	dio Card		No (Yes / No)	(Yes / No)	(Yes / No)	(Yes / No)	
capi	Discrete gra	phics Card(s) [ı	number / #]	No #: (Yes / No)	#: (Yes / No)	#: (Yes / No)	#: (Yes / No)	
	Category of	discrete graphi	cs Card(s)					
saults	all discrete graphi UMA is active for s	e (kWh) - dGf cs cards (dGfx) are dis switchable graphics/ aphics cards (dGfx)	x disabled	3				
Test results		e (kWh) - dGf cs cards (dGfx) are ena						
(g)	Idle state	oower demand	(Watts);	•			A: 3.829	
(h)	Sleep mod	de power dema	nd (Watts);				A: 0.854	
(i)	Sleep mod	de with WOL er	abled power of	demand (Watts) (whe	re enabled);		A: NA	
(j)	Off mode	power demand	(Watts);				A: 0.354	
(k)	Off mode	with WOL enab	led power der	nand (Watts) (where	enabled);		A: NA	
(I)	Internal po	ower supply effi	ciency at 10 %	5, 20 %, 50 % and 10	0 % of rated output pow	er (if applicable):		
	10%	20%	50%	100% Ave	erage			
(m)	external po	ower supply eff	ciency (if app	licable)*:				
		ctive efficiency:		%;89.04%;89.92%:88	.32%			
(o)					hstand (applies only to r	notebook computers):	300	
(p-1)	Measurem	nent methodolog	gy used to det	ermine information m	entioned in points (I) – i	nternal PSU efficiency	<u> </u>	

(p-2)	Measurement methodology used to determine information mentioned in points (m) – external PSU efficiency: EPA "Test Method for Calculating the Energy Efficiency of Single-voltage External AC-DC and AC-AC Power Supplies" dated August 11, 2004							
(p-3)	Measurement metho	dology used to determine information mentioned in p IEC 61960 measurement methodology						
(p-4)		dology used to determine information mentioned in n	naximum, idle, sleep, off mode					
	power as defined in I	Point P9.1 in the Product IT Eco Declaration: IEC 62623/ IEC EN50564:2011 measurement n	nethodology					
(q)	Sequence of steps for	or achieving a stable condition with respect to power IEC 62623/ IEC EN50564:2011 measurement n						
(r)	Description of how sl	eep and/or off mode was selected or programmed: <i>Energy-star requirement</i>						
(s)	Sequence of events off mode:	required to reach the mode where the equipment aut	omatically changes to sleep and/or					
		Energy-star requirement						
(t)		te condition before the computer automatically re not exceed the applicable power demand requirement		30				
(u)	Length of time after	r a period of user inactivity in which the computer power demand requirement than sleep mode (in	r automatically reaches a power	NA				
(v)	Length of time befo	re the display sleep mode is set to activate after	user inactivity (in minutes):	10				
(w)	Information on the er	nergy-saving potential of power management function Based on user manual	nality:					
(x)	user information on h	now to enable the power management functionality: Based on user manual						
(z)		neasurements: — test voltage in V and frequency in leasurements; — test voltage in V and frequency in least runder, — information and documentation on the instrur						
		230V/50Hz, Total Harmonic Distortion	<2 %					
Addition	Notebook Battery							
		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/b	uilt-in Battery							
External/o	detachable Battery							
Bios Back	kup Battery							
Other:	other:							
Additional	l information			•				
1) The battervies	s) in this product cannot be	easily replaced by users themselves.						

ние распетурната[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 bateria/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 [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 mill-utenti stess.

Batteriet [ene] i dette produktet kan ikke lett erstattes av brukerne selv.

De batteriit [ene] 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.

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.