

Product environmental attributes – THE ECO DECLARATION

The declaration may be published only when all rows and/or fields marked with an * are filled-in (n.a. for not applicable). Additional information regarding each item may be found under P14.

Brand *	Lenovo	Logo
Company name *	Lenovo	
Contact information *	Lenovo Global Environmental Affairs Alvin L Carter 1009 Think Place Building 2 / 5J3 Morrisville, North Carolina 27560 alcarter@lenovo.com	lenovo
Internet site *	http://www.lenovo.com/social_responsibility/us/en/environmen	t.html
Additional information		

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 *	otebook PC					
Commercial name *	Lenovo IdeaPad S510p Touch					
Model number *	20299;80BQ					
Issue date *	2013-08-07					
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.

Quality	Quality Control			
Item		Yes	No	
QC1 *	The company enforces an internal quality control scheme to ensure the correctness of this eco declaration	\boxtimes		
QC2 *	The company is a member of an eco declaration system that enforces regular independent quality contro such as organized by IT-Företagen (see www.itecodeclaration.org).	ol 🔀		

Model number *	Lenovo IdeaPad S510p Touch			
Issue date *	2013-08-07	Logo	lenovo	

Product	t environmental attributes - Legal requirements	Require	ement	met
Item		Yes	No	n.a.
P1	Hazardous substances and preparations			
P1.1*	Products do not contain more than; 0.1% lead, 0.01% cadmium, 0.1% mercury, 0.1% hexavalent chromium, 0.1% polybrominated biphenyls (PBB) or 0.1% polybrominated diphenyl ethers (PBDE). (See legal reference and Note B1)			
P1.2*	Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value.	\square		
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).	\boxtimes		
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).	\boxtimes		
P1.6*	Textile and leather parts with direct skin contact do not contain Tri-(2,3,-dibromopropyl)-phosphate (TRIS), Tris-(aziridinyl)-phosphineoxide (TEPA), polybrominated biphenyl (PBB) (see legal reference). Comment: Legal reference has no maximum concentration values.			
P1.7*	Textile and leather parts with direct skin contact do not contain more than 0.003% Azo colorants that split aromatic amines. (See legal reference and Note B1)			\square
P1.8*	Wooden parts do not contain arsenic and chromium as a wood preservation treatment as well as pentachlorophenol and derivatives (see legal reference). Comment: Legal reference has no maximum concentration values.			
P1.9*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0.5 microgram/cm ² /week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:1998.			
P1.10*	REACH Article 33 information about substances in articles is available at (add URL or mail contact): http://www.lenovo.com/social_responsibility/us/en/ThinkGreen_products.html#environment	\square		
P2	Batteries			
P2.1*	If the product contains a battery or an accumulator, it is labeled with the disposal symbol and if it contains more than 0.0005% of mercury (for button cells only) by weight, or more than 0.004% of lead, it shall be marked with the chemical symbol for the metal concerned, Hg or Pb. Information on proper disposal is provided in user manual. (See legal reference)			
P2.2*	Button cells used in the product do not contain more than 2% by weight of mercury. Other batteries or accumulators do not contain more than 0.0005% of mercury or 0.002% of cadmium. (See legal reference)	\square		
P2.3*	Batteries and accumulators are easily removable by either users or service providers (as dependent on the design of the product). Exception: Batteries that are permanently installed for safety, performance, medica or data integrity reasons do not have to be "easily removable". (See legal reference)			
P3	Safety, EMC connection to the telephone network and labeling			
P3.1*	The product complies with legally required safety standards as specified (see legal reference).	\square		
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).	\boxtimes		
P3.3*	If product is intended for connection to a public telecom network or contains a radio transmitter, it complies with legally required standards for radio and telecommunication devices (see legal reference).			
P3.4*	The product is labeled to show conformance with applicable legal requirements (see legal reference).	\square		
P4	Consumable materials			
P4.1*	If a photo conductor (drum, belt etc.) is used in the product, it does not contain cadmium max 0.01% (see legal reference and Note B1).			\square
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).			\boxtimes
P4.3*	If the ink/toner formulation/preparation is classified as hazardous according to applicable regulations, the product/packaging is adequately labeled and a Safety Data Sheet (SDS) in accordance with these requirements is available (see legal reference).			
P5	Product packaging			
P5.1*	Packaging and packaging components do not contain more than 0.01% lead, mercury, cadmium an hexavalent chromium by weight of these together.	d 🔀		
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference).	\boxtimes		
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montrea Protocol (see legal reference). Comment: Legal reference has no maximum concentration values.	al 🔀		

Note B1: Restriction applies to the homogeneous material, unless other specified and expressed in weight %.

Model n	umber *	Lenovo IdeaPad S510p Touch				
Issue da	ate *	2013-08-07 Logo	le	ПС	vo),
Produc	t environ	mental attributes - Market requirements - Environmental conscious design	Reg	lire	ment	met
Item		atory to fill in. Additional information regarding each item may be found under P14.		es	No	n.a.
P6	Treatme	nt information				
P6.1*	Informat	ion for recyclers/treatment facilities is available (see legal reference).		\boxtimes		
P7	Design Disasse	mbly, recycling				
P7.1*	Parts that	at have to be treated separately are easily separable		\triangleleft		
P7.2*	Plastic n	naterials in covers/housing have no surface coating.		\triangleleft		
P7.3*	Plastic p	arts >100g consist of one material or of easily separable materials.		\triangleleft		
P7.4*	Plastic p	arts >25g have material codes according to ISO 11469 referring ISO 1043.		$\overline{\mathbf{A}}$		
P7.5	Plastic p	arts are free from metal inlays or have inlays that can be removed with commonly available to	ols.			
P7.6*	Labels a	re easily separable. (This requirement does not apply to safety/regulatory labels).			Π	
	Product	lifetime				
P7.7*	Upgradir	ng can be done e.g. with processor, memory, cards or drives		\triangleleft		
P7.8*	Upgradir	ng can be done using commonly available tools		\triangleleft		
P7.9.	Spare pa	arts are available after end of production for: 5 years				
P7.10		s available after end of production for: 5 years				Π
	Material	and substance requirements				
P7.11*		cover/housing material type:				
		type: PC+ABS-FR(40) Material type: Material type:				
P7.12		I cable insulation materials of power cables are PVC free.				
P7.13		I cable insulation materials of signal cables are PVC free			\square	
P7.14		/housing plastic parts >25g are free from chlorine and bromine.	<u> </u>	\triangleleft		
P7.15	All printe Note B2	ed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21	. (See			
P7.16	Flame re Marking:	etarded plastic parts >25g in covers / housings are marked according ISO 1043-4: FR(40)		\triangleleft		
P7.17		al specifications of flame retardants in printed circuit boards >25g (without components): additive) , TBBPA (reactive) , Other; chemical name: , CAS #:	[
	ISO 104	Il specifications of flame retardants in printed circuit boards (without components) >25g accor 3-4: Brominated Epoxy Resin See P14	ding			
P7.18	concentr	etarded plastic parts >25g contain the following flame retardant substances/preparations above 0.1%:	ons in			
	Provide complete 1. Chem	 nt: No legal limits exist, this is a market requirement. a list of all used flame retardants including MSDS for each flame retardant. The list must c chemical name, CAS number and supplier. ical name: , CAS #: , Supplier: ical name: , CAS #: , Supplier: 	ontain			
	Alt. 2	ical name: , CAS #: , Supplier: Il specifications of flame retardants in plastic parts >25g according ISO 1043-4:	[\triangleleft		
P7.19	Plastic p	arts >25g are free from flame retardant substances/ preparations above 0.1% classified as R- 6, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)	45,	\triangleleft		
P7.20		plastic parts' weight >25g, recycled material content is 3.6%.				<u>.</u>
P7.21		plastic parts' weight >25g, biobased material content is 0%.				
P7.22	Light sou	Irces are free from mercury		\triangleleft		
P8	Batterie					
P8.1*	-	chemical composition: Lithium Ion/Lithium Manganese Dioxide				
P8.2	Batteries	meet the requirements of the following voluntary program/s: US RBRC				

Annex B of ECMA-370 4th edition, June 2009

Note B2: IEC61249-2--21 has maximum limits for chlorine and bromine but does not address fluorine, iodine and astatine which are included in the group of halogens.

Note B3: 'Starting from January 2009, Risk phrases can be replaced by Hazard phrases according to the Globally Harmonized System (GHS), mandatory by December 2010.

Model number	^{nber*} Lenovo IdeaPad S510p Touch							
Issue date *	2013-08		7 Logo lenovo					
	onmental at	ttributes - Market	requirements (co	ontinued)		Requirement		
Item						Yes No	n.a.	
	rgy consump			motiona ara ranarta	di Coo D14			
		e following power lev pped w/ WOL Enable		nptions are reporte	ed: See P14			
Energy mode *		Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference / Standard and test method *	d for energy modes		
Peak (On-max)		45 W	45 W	45 W	Full load			
Category A								
Idle State - WO	L Enabled	5.040W	4.824W	3.516 W	Use for Energy Star	V5 registration(P _{idle})		
Sleep (S3) - WC	L Enabled	0.720 W	0.732 W	0.744W	Use for Energy Star	V5 registration(P _{sleep})		
Sleep (S3) - WC	OL Disabled	0.620 W	0.630 W	0.680 W	Reference			
Off (S5) - WOL	Enabled	0.220 W	0.230 W	0.280 W	Use for Energy Star	V5 registration(Poff)		
Off (S5) - WOL	Disabled	0.264W	0.264 W	0.288 W	Use for EuP			
charger plugged	(External power supply / charger plugged in the wall outlet but disconnected from							
TEC Typical Energy (Consumption	kWh/week	kWh/week	kWh/week				
ETEC * Annual Energy (Consumption	15.26 kWh/year	14.71 kWh/year	11.41 kWh/year	$E_{TEC} = (8760/1000) \times 0.1 + P_{idle} \times 0.3)$	$(P_{off} \times 0.6 + P_{sleep} \times 0.6)$		
		Poff: Off Mode(S5) - V	VOL Enabled; P _{sleep} : S	Sleep Mode(S3) - WOL	Enabled; P _{idle} : Idle State	- WOL Enabled		
Display resolution	n : 1366*76	8 Megapixels						
Print Speed	:	Images per minu	te				\square	
Default time to e	nter energy sa	ave mode: 25 minute	S					
P9.2* Infor	mation about	the energy save fund	tion is provided with	the product.				
ENE Othe	RGY STAR® ers specify: Er	s the energy requiren version: Version 5.0 nergy Star for Extern) dated July 1, 2009	Product category:	Α			
	ssions e emission -	- Declared according	to ISO 9296					
			Declared A-weighted sound power level <i>L_{WAd}</i> (B)	Declared A- sound pressure le Operator position A Desktop A or Desk side				
Idle	3	* HDD: Idle		* 3.0	23.	7		
	ration	* HDD: Operating		* 3.0	26.	1		
Othe	er mode							
Mea	sured accordi	ng to: 🔀 ISO7779 [ECMA-74					
		Other			h L _{pAm} measurement dis	stance m)		
P10.2 The	The product meets the acoustic noise requirements of the following voluntary program/s:							

Model nun	mber* Lenovo IdeaPad S510p Touch									
Issue date	*	2013-08-	07	7 Logo lenovo.						
	environm	nental at	tributes - Market	requirements (co	ontinued)		Requirement			
Item P9	Energy		len				Yes No	n.a.		
P9 9.1		consumpt	following power lev	els or energy consu	motions are reporte	d. See P14				
0.1			pped w/ WOL Enable				\boxtimes			
Energy mode *		Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference / Standar and test method *	rd for energy modes				
Peak (On-	max)		65W	65 W	65 W	Full load				
Category	<u>у В</u>							-		
Idle State	- WOL En	abled	6.012W	6.156W	5.652 W	Use for Energy Star	V5 registration(P _{idle})			
Sleep (S3)	- WOL EI	nabled	0.708 W	0.696 W	0.708W	Use for Energy Star	V5 registration(P _{sleep})			
Sleep (S3)	- WOL Di	isabled	0.620 W	0.630 W	0.680 W	Reference				
Off (S5) - V	NOL Enal	bled	0.220 W	0.230 W	0.280 W	Use for Energy Star	V5 registration(P _{off})			
Off (S5) - V	NOL Disa	bled	0.216W	0.216 W	0.264 W	Use for EuP				
EPS No-loa (External p charger plu outlet but d the product	ower supp Igged in th	ne wall	<i>0.069</i> W	0.075 W	<i>0.139</i> W					
TEC Typical Ene	ergy Cons	umption	kWh/week	kWh/week	kWh/week					
ETEC * Annual Ene	ergy Cons	umption	17.56 kWh/year	17.92 kWh/year	16.86 kWh/year	$E_{TEC} = (8760/1000) \times 0.1 + P_{idle} \times 0.3)$	$(P_{off} \times 0.6 + P_{sleep} \times 0.6)$			
			Poff: Off Mode(S5) - V	NOL Enabled; P _{sleep} : S	Sleep Mode(S3) - WO	L Enabled; Pidle: Idle State	e - WOL Enabled	4		
Display res	olution :	1366*768	B Megapixels							
Print Speed	d :		Images per minu	te						
		energy sa	ive mode: 25 minute							
P9.2*			he energy save fund		the product.					
P9.3*	ENERGY	STAR®	the energy requirenversion: Version 5.0) dated July 1, 2009	Product category:	B				
D40			ergy Star for Exter	nal Power Supplies	Eligibility Criteria	version 2				
P10	Emission Noise en	-	Declared according	to ISO 9296						
P10.1	Mode	Mode description		Declared A-weighted sound power level <i>L</i> _{WAd} (B)	ed ver sound pressure level L_{pAm} (dB (B) Operator position \boxtimes Bystander po Desktop \boxtimes (only if product)					
	Idle	*	HDD: Idle		* 3.0	opera				
	Operation		HDD: Operating		* 3.0	23.7		18		
	Other mo							1		
	Measure	d accordir		ECMA-74				1		
P10.2	The pred	uct mooto				h L _{pAm} measurement di	stance m)			
1 10.2	P10.2 The product meets the acoustic noise requirements of the following voluntary program/s:									

Model nu	umber *	Lenovo IdeaPad S510p Touch			
Issue da	te *	2013-08-07 Logo	leno	vo	
Product	t environr	nental attributes - Market requirements (continued)	Requir	ement	met
Item			Yes	No	n.a.
	Chemic	al emissions from printing products			
P10.3*	Test per	formed according to ECMA-328 (ISO/IEC 28360) standard 🗌, other specify:			\square
P10.4	•••	emission rate (print phase) is (mg/h):			\boxtimes
D40 5		Dust Ozone Styrene Benzene TVOC			<u> </u>
P10.5		al emission requirements of the following voluntary program/s are met for : DustOzoneStyreneBenzeneTVOC			\square
	Electron	nagnetic emissions			
P10.6		er display meets the requirement for low frequency electromagnetic fields of the following voluntary /s: MPR-II	\boxtimes		
P11	Consun	nable materials for printing products			
P11.1*	A Safety	Data Sheet (SDS) is available for the ink/toner preparation, even if not legally required (see P4.3).			\square
P11.2*	Paper c EN1228	ontaining post-consumer recycled fibers can be used, provided that it meets the requirements 1.	of 🗌		\square
P11.3*	2-sided	(duplex) printing/copying is an integrated product function.			\square
P12	Ergono	nics for computing products			
P12.1*	The disp	lay meets the ergonomic requirements of ISO 9241-307 for visual display technologies.	\boxtimes		
P12.2*	The phy	sical input device meets the requirements of ISO 9995 and ISO 9241-410.	\square		
P13	Packagi	ng and documentation			
P13.1*	Product	packaging material type(s): <i>Corrugated Carton</i> weight (kg): <i>0.395</i> packaging material type(s): <i>Polyethylene Cushions</i> weight (kg): <i>0.090</i> packaging material type(s): <i>Others</i> weight (kg): <i>0.123</i>			
P13.2*	Product	plastic packaging is free from PVC.	\boxtimes		
P13.3*		media for user and product documentation (tick box): ic ⊠, Paper ⊠, Other □			
P13.4*		er user and product documentation, please specify contained percentage of post-consumer recycler % (Japan only 70%)	b		
P14		nal information (See Note B4)			
	informat knowled provided informat		sed on su tion. The i	pplier's nforma	
P7.17		t does not contain free TBBPA in printed circuit boards(without components)>25g.			
P9		ergy Star Qualified (insert appropriate Product type; i.e. Desktop, Notebook, etc.) for the lates ownloads.energystar.gov/bi/qplist/laptops_prod_list.xls (insert appropriate web url)	st informa	tion:	

Note B4: 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 B

Reference	Declaration item
2002/95/EC (ROHS Directive)	P1.1, P4.1
REACH, Annex XVII	P1.6, P1.8, P4.2
REACH, Annex XVII	P1.4
REACH, Annex XVII	P1.2
REACH, Annex XVII	P1.7
REACH, Annex XVII	P1.9
Regulation (EC) No. 2037/2000, 2038/2000, 2039/2000	P1.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
2006/66/EC (Battery and accumulators Directive)	P2.1, P2.2, P2,3, P3.4, P8.1
2006/95/EC (Low Voltage Directive)	P3.1, 3.4
2004/108/EEC (New EMC Directive)	P3.2, 3.4
1999/5/EC (R&TTE Directive)	P3.3, 3.4
"REACH" Regulation (1907/2006), annex VII	P1.10
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P4.3
REACH article 31, annex II	P4.3
2004/12/EC (Directive on packaging and packaging waste)	P5.1
(97/129/EC) (Commission Decision on Identification System for Packaging Materials	P5.2
2037/2000/EC Regulation on Substances that Deplete the Ozone Layer	P5.3
2002/96/EC (WEEE directive)	P3.4, P6.1
(EC) No.1272/2008 regulation on classification, labeling and packaging (CLP)	P7.19