

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 *	IdeaPad	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/environment	•			
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 *	lotebook PC				
Commercial name *	Lenovo IdeaPad S405				
Model number *	20196, 9802				
Issue date *	2012-6-15				
Intended market *	☐ Global ☐ Europe ☐ Asia, Pacific & Japan ☐ Americas ☐ Other				
Additional information	ENERGY STAR® Qualified; EPEAT GOLD Rating; GREENGUARD Certified				

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

Quality (Control	Requireme	nt met
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 controsuch as organized by IT-Företagen (see www.itecodeclaration.org).		

Model number *	Lenovo IdeaPad S405		
Issue date *	2012-6-15	Logo	lenovo

Product	environmental attributes - Legal requirements	Require	men	met
Item	<u> </u>	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.	\boxtimes		
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).			
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)			
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.		Ш	
P1.9*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0.5	\square	П	
	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):	\boxtimes		
	http://www.lenovo.com/social_responsibility/us/en/ThinkGreen_products.html#environment			
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			
P2.3*	accumulators do not contain more than 0.0005% of mercury or 0.002% of cadmium. (See legal reference) Batteries and accumulators are easily removable by either users or service providers (as dependent on the	· 🔀	$\overline{\Box}$	
	design of the product). Exception: Batteries that are permanently installed for safety, performance, medical or data integrity reasons do not have to be "easily removable". (See legal reference)		Ш	
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).	X	П	
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).			
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	П	
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).			
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).		П	\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 and 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).	al 🔀		
	Comment: Legal reference has no maximum concentration values.			

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

Model number *	Lenovo IdeaPad S405		
Issue date *	2012-6-15	Logo	lenovo

Product	t environmental attributes - Market requirements - Environmental conscious design Re	quire	men	t met
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.
P6	Treatment information			
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	\boxtimes		
P7	Design Disassembly, recycling			
P7.1*	Parts that have to be treated separately are easily separable	\square	П	$\overline{}$
P7.2*	Plastic materials in covers/housing have no surface coating.		Ħ	一片
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.		\vdash	-H
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.		$^{+}$	-#
				_#
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.			_#
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).		Ш	
	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:			
	Material type: PC+ABS-FR(40) Material type: Material type:			
P7.12	Electrical cable insulation materials of power cables are PVC free.		\boxtimes	
P7.13	Electrical cable insulation materials of signal cables are PVC free		\boxtimes	
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.			
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See Note B2)			
P7.16	Flame retarded plastic parts >25g 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 >25g (without components): TBBPA (additive) , TBBPA (reactive) , Other; chemical name: , CAS #:			
	Alt. 2 Chemical specifications of flame retardants in printed circuit boards (without components) >25g according ISO 1043-4: <i>Brominated Epoxy Resin See P14</i>			
P7.18	Alt. 1 Flame retarded plastic parts >25g contain the following flame retardant substances/preparations in concentrations above 0.1%:			
	Comment: No legal limits exist, this is a market requirement. Provide a list of all used flame retardants including MSDS for each flame retardant. The list must contain complete chemical name, CAS number and supplier. 1. Chemical name: , CAS #: , Supplier: 2. Chemical name: , CAS #: , Supplier:			
	3. Chemical name: , CAS #: , Supplier: Alt. 2 Chemical specifications of flame retardants in plastic parts >25g according ISO 1043-4: FR(40)			
P7.19	Plastic parts >25g are free from flame retardant substances/ preparations above 0.1% classified as R45, R40, R46, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)			
P7.20	Of total plastic parts' weight >25g, recycled material content is 5.5%.			
P7.21	Of total plastic parts' weight >25g, biobased material content is 0 %.			
P7.22	Light sources are free from mercury	\boxtimes		
P8	Batteries			
P8.1*	Battery chemical composition: Lithium Ion/Lithium Manganese Dioxide			
P8 2	Batteries meet the requirements of the following voluntary program/s: US RRRC			一百

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 *	Lenovo IdeaPad S405		
Issue date *	2012-6-15	Logo	lenovo

Product environmental	t environmental attributes - Market requirements (continued) Requirement n			met		
Item				n.a.		
P9 Energy consum	•					
	he following power lev nipped w/ WOL Enable		mptions 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 *	for energy modes	
Peak (On-max)	<i>65</i> W	<i>65</i> W	<i>65</i> W	Full load		
Category B/A	Category B/A					
Idle State - WOL Enabled	<i>5.858/6.954</i> W	<i>5.964/7.184</i> W	6.441/7.486 W	Use for Energy Star V5	registration(P _{idle})	
Sleep (S3) - WOL Enabled	0.724/0.805 W	0.726/0.811 W	0.771/0.906W	Use for Energy Star V5	registration(P _{sleep})	
Sleep (S3) - WOL Disabled	0.729/0.798 W	0.729/0.798 W	0.766/0.9 W	Reference		
Off (S5) - WOL Enabled	0.45/0.433 W	0.451/0.438 W	0.497/0.515 W	Use for Energy Star V5	registration(P _{off})	
Off (S5) - WOL Disabled	<i>0.402/0.382</i> W	0.403/0.387 W	0.452/0.463 W	Use for EuP		
EPS No-load (External power supply / charger plugged in the wall outlet but disconnected from the product.)	0.153/0.13 W	0.156/0.134 W	0.206/0.198 W			
TEC Typical Energy Consumption	kWh/week	kWh/week	kWh/week			
ETEC * Annual Energy Consumption	18.394/21.256 kWh/year	18.680/21.892 kWh/year	20.215/23.174 kWh/year	$E_{TEC} = (8760/1000) \times (F_{0.1} + P_{idle} \times 0.3)$	P _{off} x 0.6 + P _{sleep} x	
	P _{off} : Off Mode(S5) -	WOL Enabled; P _{sleep} : \$	Sleep Mode(S3) - WO	Enabled; P _{idle} : Idle State - I	WOL Enabled	
Display resolution : 1280*8	00 Megapixels					
Print Speed :	Images per minu	ite				\boxtimes
Default time to enter energy	save mode: 25 minute	es				一
P9.2* Information abou	t the energy save fund	ction is provided with	the product.		\square	Ħ
ENERGY STAR Others specify:	ets the energy requirer version: <i>Version 5.</i> Energy Star for Exter	0 dated July 1, 200	Product category:	A		
P10 Emissions	- Declared according	to ISO 9296				
P10.1 Mode	Mode description	10 100 9290	Declared A-weighted sound power	Declared A-w sound pressure leve	•	
			level L_{WAd} (B)	Desktop X	Bystander positions only if product is not operator attended)	
Idle	* HDD: Idle		* 2.9	23.7		
Operation	* HDD: Operating		* 2.9	25.9		
Other mode	 	FOMA 74				
Measured accord	ding to: X ISO7779 Cother		red by ECMA-74 with	h L _{pAm} measurement dista	ance m)	
P10.2 The product mee	ets the acoustic noise					

Model number *	Lenovo IdeaPad S405		
Issue date *	2012-6-15	Logo	lenovo

Product	environmental attributes - Market requirements (continued)	Require	ment	met		
Item	•	Yes	No	n.a.		
	Chemical emissions from printing products					
P10.3*	Test performed according to ECMA-328 (ISO/IEC 28360) standard ☐, other specify:			\boxtimes		
P10.4	Typical emission rate (print phase) is (mg/h):			\boxtimes		
	Dust Ozone Styrene Benzene TVOC					
P10.5	Chemical emission requirements of the following voluntary program/s are met for :			\boxtimes		
	Dust Ozone Styrene Benzene TVOC					
	Electromagnetic emissions					
P10.6	6 Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program/s: MPR-II					
P11	Consumable 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).			\boxtimes		
P11.2*	Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of EN12281.			\boxtimes		
P11.3*	2-sided (duplex) printing/copying is an integrated product function.			\boxtimes		
P12	Ergonomics for computing products					
P12.1*	The display meets the ergonomic requirements of ISO 9241-307 for visual display technologies.	\boxtimes				
P12.2*	The physical input device meets the requirements of ISO 9995 and ISO 9241-410.					
P13	Packaging and documentation					
P13.1*	Product packaging material type(s): <i>Corrugated Carton</i> weight (kg): <i>0.378</i> Product packaging material type(s): <i>Polyethylene Cushions</i> weight (kg): <i>0.058</i>					
P13.2*	Product packaging material type(s): <i>Others</i> weight (kg): <i>0.230</i> Product plastic packaging is free from PVC.		_			
	1 1 0 0	\boxtimes		<u></u>		
P13.3*						
D40.4*	Electronic , Paper , Other .			_		
P13.4*	For paper user and product documentation, please specify contained percentage of post-consumer recycled fiber: 0 % (<i>Japan only 70</i> %)					
P14	Additional information (See Note B4)					
	NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or implied, regarding the information contained in this document. All information provided by supplier in this document is provided based on supplier's knowledge available at the time of completion, and supplier shall have no obligation to update such information. The information provided here is approximate and provided for informational purposes only. See a Lenovo Account Representative for more information.					
P7.17	Product does not contain free TBBPA in printed circuit boards(without components)>25g.					
P9	See ENERGY STAR Qualified Notebooks & Tablet Computers for the latest information: http://downloads.energystar.gov/bi/qplist/laptops_prod_list.xls					

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