

## 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 *	ThinkPad	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 *	www.pc.ibm.com/ww/lenovo/about/environment	
Additional information		

	pased on product specification or test results based obtained from sample testing), that the product its given in this declaration.				
Type of product *	Notebook PC				
Commercial name *	ThinkPad X120e				
Model number *	M/T: 0596/0611/0613				
Issue date *	2011, February 15				
Intended market *	☐ Global ☐ Europe ☐ Asia, Pacific & Japan ☐ Americas ☐ Other				
Additional information	ENERGY STAR® Qualified; EPEAT GOLD Rating*; GREENGUARD Certified				

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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		
QC2 *	The company is a member of an eco declaration system that enforces regular independent quality control such as organized by IT-Företagen (see www.itecodeclaration.org).	ol 🔀	

Model number *	ThinkPad X120e	M/T: 0596/0611/0613		
Issue date *	2011, February 15		Logo	lenovo

Product	environmental attributes - Legal requirements	Require	ment	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.	$\boxtimes$		
P1.3*	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC),	$\boxtimes$		
	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).	$\boxtimes$		
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)			
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/cm²/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/environment.html			
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)	$\boxtimes$		
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, medical 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).	$\boxtimes$		
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).	$\boxtimes$		
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).			$\boxtimes$
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.			
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (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.			

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

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Product	environmental attributes - Market requirements - Environmental conscious design	quire	ment	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	$\boxtimes$	П	П
P7.2*	Plastic materials in covers/housing have no surface coating.	Ħ		Ħ
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.			Ħ
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.		Ħ	H
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	$\overline{\mathbb{X}}$	∺	H
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).		井	+
F1.0	Product lifetime			
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives			
P7.8*	Upgrading can be done using commonly available tools	$\overline{X}$	∺	H
P7.9.				$\dashv$
P7.10	Spare parts are available after end of production for: 5 years			<u> </u>
P7.10	Service is available after end of production for: 5 years			
P7.11*	Material and substance requirements  Product cover/housing material type:			
P7.11	Material type: PC+ABS-FR(40) Material type: Material type:			
P7.12	Electrical cable insulation materials of power cables are PVC free.		$\square$	
P7.13	Electrical cable insulation materials of signal cables are PVC free	+		H
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.	X		$\blacksquare$
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See	$\vdash$		H
1 7.10	Note B2)	ш		
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4:	$\boxtimes$		
	Marking: FR(40)			
P7.17	Alt. 1 Chemical specifications of flame retardants in printed circuit boards >25g (without components):	П	П	П
	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: Brominated Epoxy Resin See P14			
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:			
	2. Chemical name: , CAS #: , Supplier: 3. Chemical name: , CAS #: , Supplier:			
	Alt. 2	$\boxtimes$		
	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 0%. (Assessment is about main computer parts only. Battery, AC adapter, Cords, Drives, Keyboard, LCD, and misc parts not included.)			
P7.21	Of total plastic parts' weight >25g, biobased material content is 0%.			
P7.22	Light sources are free from mercury	X		
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 RBRC			

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.

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Product 6	oduct environmental attributes - Market requirements (continued) Requirement met					met
Item					Yes No	n.a.
P9	Energy consump	tion				
9.1		e following power leven pped w/ WOL Enable		nptions are reporte	d: <b>See P14</b>	
Energy mo	de *	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)	65 W	<b>65</b> W	<b>65</b> W	Full load	
Categor	<u>y A</u>	•				
Idle State	- WOL Enabled	7.00 W	<b>7.20</b> W	<b>7.40</b> W	Use for ENERGY STAR Registration(Pidle)	
Sleep (S3)	- WOL Enabled	0.88 W	0.93 W	1.44 W	Use for ENERGY STAR Registration(P <sub>sleep</sub> )	
Sleep (S3)	- WOL Disabled	0.85 W	0.90 W	<b>1.38</b> W	Reference	
Off (S5) - I	WOL Enabled	0.56 W	0.59 W	<b>0.98</b> W	Use for ENERGY STAR Registration(Poff)	
Off (S5) - I	WOL Disabled	0.54 W	0.57 W	0.93W	Use for EuP	
charger plu outlet but d the product	ower supply / ligged in the wall lisconnected from t.)	W	0.32 W	0.37 W		
TEC Mode Typical Ene	l ergy Consumption	kWh/week	kWh/week	kWh/week		
ETEC Mode Annual Ene	l* ergy Consumption	<b>22.1</b> kWh/year	22.8 kWh/year	<b>25.9</b> kWh/year	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.6 + P_{sleep} \times 0.1 + P_{idle} \times 0.3)$	
		P <sub>off</sub> : Off Mode(S5) - I	WOL Enabled; P <sub>sleep</sub> :	Sleep Mode(S3) - WO	L Enabled; P <sub>idle</sub> : Idle State - WOL Enabled	
Display res	olution :	Megapixels				
Print Speed	: t	Images per minut	e			
Default time	e to enter energy sa	ave mode: 25 minut	es			
P9.2*	Information about	the energy save fund	tion is provided with	the product.		
P9.3*	ENERGY STAR®	s the energy requirent version: <i>Version 5.0</i> VERGY STAR for Ex	dated July 1, 2009	Product category:	A 🖂 🗀	
P10	Emissions					
D40.4		Declared according	to ISO 9296	Declared	Declared A weighted	
P10.1	Mode	Mode description		Declared A-weighted sound power	Declared A-weighted sound pressure level $L_{p m Am}$ (dB)	
				level $L_{WAd}$ (B)	Operator position Bystander positions	
				WAG	Desktop (only if product is not	
					or Desk side (only if product is not operator attended)	
	Idle	* HDD: Idle		* 3.2	25	
	Operation	* HDD: Operating		* 3.9	33	
	Other mode					
	Measured accordi	ng to: ISO7779 L Other m)	ECMA-74 (only if not c	overed by ECMA-74	4 with L <sub>pAm</sub> measurement distance	
P10.2						

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Product	environmental attributes - Market requirements (continued)	equire	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):			X		
	Dust Ozone Styrene Benzene TVOC					
P10.5	Chemical emission requirements of the following voluntary program/s are met for :			$\times$		
	Dust Ozone Styrene Benzene TVOC					
	Electromagnetic emissions					
P10.6	Computer display meets the requirement for low frequency electromagnetic fields of the following voluntary program/s: MPR-II(3 pin AC adapter only)					
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.					
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): Corrugated Cardboard weight (kg): 0.305					
	Product packaging material type(s): <i>Molded Pulp Cushion</i> weight (kg): <i>0.096</i>					
D40.0*	Product packaging material type(s): Plastic Bags weight (kg): 0.031	<u> </u>		_		
P13.2*	Product plastic packaging is free from PVC.	$\boxtimes$		Щ.		
P13.3*	Specify media for user and product documentation (tick box):					
	Electronic , Paper , Other					
P13.4*	For paper user and product documentation, please specify contained percentage of post-consumer recycled fiber: 0% (Japan only 70%)					
P14	Additional information (See Note B4)	•				
	NOTE: Supplier makes no representations, guarantees, assurances or warranties whether express or implied information contained in this document. All information provided by supplier in this document is provided based knowledge available at the time of completion, and supplier shall have no obligation to update such information provided here is approximate and provided for informational purposes only. See a Lenovo Account Representa information.	on supp	olier's ormati	on		
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