

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		

	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 PC				
Commercial name *	ThinkPad X121e				
Model number *	3045/3048/3049(Intel) / 3051/3053/3055(AMD)				
Issue date *	2011, May 31				
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 X121e MT: 3045/3048/3049(Intel) / 3051/3053/3055(AMD)		
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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),	\square		
	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),		$\overline{\Box}$	\boxtimes
	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			\square
	aromatic amines. (See legal reference and Note B1)		ш	
P1.8*	Wooden parts do not contain arsenic and chromium as a wood preservation treatment as well as			\boxtimes
	pentachlorophenol and derivatives (see legal reference).	_		
D4 0*	Comment: Legal reference has no maximum concentration values.	<u> </u>	_	
P1.9*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0.5 microgram/cm²/week (see legal reference).	\boxtimes		
	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):	\square		
	http://www.lenovo.com/social_responsibility/us/en/environment.html		ш	ш
P2	Batteries		•	
P2.1*	If the product contains a battery or an accumulator, it is labeled with the disposal symbol and if it contains	X		П
	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			
P2.2*	provided in user manual. (See legal reference)			
FZ.Z	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	Ш	
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		ш	ш
	or data integrity reasons do not have to be "easily removable". (See legal reference)			
P3	Safety, EMC connection to the telephone network and labeling	<u> </u>		
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).			X
P4.3*	If the ink/toner formulation/preparation is classified as hazardous according to applicable regulations, the		Ħ	$\overline{\mathbb{X}}$
	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.	\boxtimes		
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference).	X		
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.			
	Commons. Logar 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	duct environmental attributes - Market requirements - Environmental conscious design Requirement me				
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).				
P7	Design Disassembly, recycling				
P7.1*	Parts that have to be treated separately are easily separable	\boxtimes			
P7.2*	Plastic materials in covers/housing have no surface coating.			\blacksquare	
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.		Ħ	Ħ	
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.		Ħ	\pm	
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	X	Ħ	\blacksquare	
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).		Ħ	\blacksquare	
	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		Ħ	\vdash	
P7.9.	Spare parts are available after end of production for: 5 years			∺	
P7.10				╬	
1 7.10	Service is available after end of production for: 5 years				
P7.11*	Material and substance requirements Product cover/housing material type:				
1 7.11	Material type: PC+ABS-FR(40) Material type: Material type:				
P7.12	Electrical cable insulation materials of power cables are PVC free.		X		
P7.13	Electrical cable insulation materials of signal cables are PVC free	Ħ		Ħ	
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		Ħ	Ħ	
	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)	\boxtimes			
P7.20	Of total plastic parts' weight >25g, recycled material content is 10 %.				
P7.21	Of total plastic parts' weight >25g, biobased material content is 0%.				
P7.22	Light sources are free from mercury				
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 environmental attributes - Market requirements (continued) Requirement r					met	
						n.a.
P9 Energy consumption						
9.1 For the product the following power levels or energy consumptions are reported:						
Energy mode		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	65 W	65 W	Full load	
Category A						
Idle State - WOL E	nabled	7.78 W	7.90 W	8.05 W	Use for ENERGY STAR Registration(P _{idle})	
Sleep (S3) - WOL	Enabled	0.80 W	0.91 W	1.07 W	Use for ENERGY STAR Registration(P _{sleep})	
Off (S5) - WOL En	abled	0.62 W	0.64 W	0.83 W	Use for ENERGY STAR Registration(Poff)	
Off (S5) - WOL Dis	sabled	0.58 W	0.67 W	<i>0.88</i> W	Use for EuP	
EPS No-load (External power su charger plugged in outlet but disconne the product.)	the wall	W	0.24 W	0.38 W		
P _{TEC} Typical Energy Cor	nsumption	W	W	W	(Workstation Levels) $P_{TEC} = 0.35 * P_{off} + 0.10 * P_{sleep} + 0.55 * P_{idle}$	
TEC Typical Energy Cor	nsumption	kWh/week	kWh/week	kWh/week		
ETEC *		24.42 kWh/year	24.89 kWh/year	26.45 kWh/year	(Desktop, Integrated Desktop, and Notebook Levels)	
Annual Energy Cor	sumption				$E_{TEC} = (8760/1000) * (P_{off} * T_{off} + P_{sleep} * T_{sleep} + P_{idle} * T_{idle})$	
Display resolution	: 1366 x 7	68 Megapixels				
Print Speed	: Im	nages per minute				
Default time to ente	er energy sa	ave mode: 20 minute	S			
P9.2* Informa	ation about	the energy save fund	tion is provided with	the product.		
ENERO	SY STAR®	the energy requirent version: Version 5.2 VERGY STAR for Ex	dated January, 20	11 Product categor	y: A	
P10 Emissi						
P10.1 Mode		Declared according Mode description	to ISO 9296	Declared A-weighted sound power	Declared A-weighted sound pressure level $L_{p{\sf Am}}$ (dB)	P1 0.1
				WAU ()	Operator position Desktop Operator position Operator Desktop Operator Desk side Operator	
Idle		HDD: Idle		* 3.3	26	
Operat		* HDD: Operating		* 3.5	28	
Other r			TOMA 74			-
Measu	red accordir	ng to: X ISO7779 L Other	ECMA-74 (only if not covere	ed by FCMA-74 with	L _{pAm} measurement distance m)	
P10.2 The pro	nduct meats	the acquetic noise r				\vdash

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Product 6	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):			\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	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.			
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 Product packaging material type(s): Recycled Molded Pulp Cushion Product packaging material type(s): Others(Plastic Bags) weight (kg): 0.305 weight (kg): 0.097 weight (kg): 0.017			
P13.2*	Product plastic packaging is free from PVC.	\boxtimes		
P13.3*	Specify media for user and product documentation (tick box):			Ħ
	Electronic , Paper , Other			
P13.4*	For paper user and product documentation, please specify contained percentage of post-consumer recycled fiber: 0%.(Japan only 70%)			
P13.5	User and product documentation do not contain chlorine bleached paper.	\boxtimes		
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. EPEAT Gold rating in the US only; EPEAT Silver rating for all other applicable geos.	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