

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 W701/W701ds		
Model number *	M/T: 4323, 2500, 4326, 2541, 2542, 2543, 2544		
Issue date *	2010, March 1		
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			Requirement 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 contro such as organized by IT-Företagen (see www.itecodeclaration.org).	ol 🛛			

Model number *

2010, March 1

ThinkPad W701/W701ds M/T: 4323, 2500, 4326, 2541, 2542, 2543, 2544

Issue date *

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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), 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)			\boxtimes
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/environment.html	\boxtimes		
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			
P3	or data integrity reasons do not have to be "easily removable". (See legal reference) Safety, EMC connection to the telephone network and labeling			
P3.1*	The product complies with legally required safety standards as specified (see legal reference).			
P3.2*	The product complies with legally required standards for electromagnetic compatibility (see legal reference).		\dashv	
P3.3*	If product is intended for connection to a public telecom network or contains a radio transmitter, it complies		╞	
1 0.0	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).			\square
P4.2*	If ink/toner is used in the product, it does not contain cadmium max 0.1% by weight (see legal reference).			\bowtie
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.	1		
P5.2*	Plastic packaging material is marked according to ISO 11469 referring ISO 1043 (see legal reference).	\square		
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.	I 🔀		

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

Model n	umber *	ThinkPad W701/W701ds			
		M/T: 4323, 2500, 4326, 2541, 2542, 2543, 2544			
Issue date *			lend	vo	•
Produc	t environ	mental attributes - Market requirements - Environmental conscious design	Require	ment	met
Item		atory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.
P6		nt information			
P6.1*	Informati	on for recyclers/treatment facilities is available (see legal reference).	\square		
P7	Design	mbly, recycling			
P7.1*		t have to be treated separately are easily separable			
P7.2*		naterials in covers/housing have no surface coating.			⊢⊢
P7.3*		arts >100g consist of one material or of easily separable materials.			⊢⊢
P7.4*		arts >25g have material codes according to ISO 11469 referring ISO 1043.		╞	╞
P7.5		arts are free from metal inlays or have inlays that can be removed with commonly available tools.		╶╞┤╴	╞
P7.6*	-			<u> </u>	⊢⊢
P7.6	_	re easily separable. (This requirement does not apply to safety/regulatory labels).		<u> </u>	
P7.7*	Product	Infetime ng can be done e.g. with processor, memory, cards or drives			
		ng can be done using commonly available tools		<u> </u>	⊢⊢
P7.8*	10		\square		_Ц
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			
		and substance requirements			
P7.11*		cover/housing material type:			
P7.12		type: PC+ABS-FR(40) Material type: Material type: I cable insulation materials of power cables are PVC free. Material type: Material type:			
P7.12			<u> </u>		╞
		I cable insulation materials of signal cables are PVC free			⊢⊢
P7.14		/housing plastic parts >25g are free from chlorine and bromine.			Щ.
P7.15	Note B2)		;		
P7.16	Flame re Marking:	tarded plastic parts >25g in covers / housings are marked according ISO 1043-4: FR(40)	\square		
P7.17	Alt. 1	I appacifications of flows retardants in printed aircuit boards - 25g (without components);			
		additive), TBBPA (reactive), Other; chemical name: , CAS #:			
		Il specifications of flame retardants in printed circuit boards (without components) >25g according 3-4: Brominated Epoxy Resin See P14			
P7.18	Alt. 1				
		etarded plastic parts >25g contain the following flame retardant substances/preparations ir ations above 0.1%:	ו		
	Provide complete 1. Chemi	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 contain a chemical name, CAS number and supplier. ical name: , CAS #: , Supplier:	١		
		ical name: , CAS #: , Supplier:			
	3. Chem Alt. 2	ical name: , CAS #: , Supplier:	\boxtimes		
		I specifications of flame retardants in plastic parts >25g according ISO 1043-4:	<u> </u>		
P7.19		arts >25g are free from flame retardant substances/ preparations above 0.1% classified as R45, 6, R48, R50, R51, R53, R60, R61 and any combination of these (See Note B3)	\boxtimes		
P7.20	Of total p	plastic parts' weight >25g, recycled material content is 0%.			
P7.21	Of total p	plastic parts' weight >25g, biobased material content is 0%.		_	
P7.22	Light sou	Irces are free from mercury	\boxtimes		
P8	Batteries				
P8.1*		hemical 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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Issue date *

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Product environmental a	ttributes - Market	requirements (co	ontinued)	Requirement	me
tem				Yes No	n.a
P9 Energy consump					
	e following power lev ipped 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 for energy modes and test method *	
Peak (On-max)	170/230 W	170/230 W	170/230 W	Full load	
Category C	-	•			
dle State - WOL Enabled	29.7 W	29.98 W	29.71 W	Use for Energy Star V5 registration(P _{idle})	
Sleep (S3) - WOL Enabled	2.15 W	2.13 W	2.13 W	Use for Energy Star V5 registration(Psieep)	
Sleep (S3) - WOL Disabled	1.88 W	1.88 W	1.88 W	Reference	
Off (S5) - WOL Enabled	0.89 W	0.89 W	0.93 W	Use for Energy Star V5 registration(Poff)	
Off (S5) - WOL Disabled	0.80 W	0.80 W	0.85 W	Use for EuP	F
Category B					
Idle State - WOL Enabled	W	W	W	Use for Energy Star V5 registration(P _{idle})	
Sleep (S3) - WOL Enabled	W	W	W	Use for Energy Star V5 registration(P _{sloep})	
Sleep (S3) - WOL Disabled	W	W	W	Reference	
Off (S5) - WOL Enabled	W	W	Ŵ	Use for Energy Star V5 registration(P _{off})	
Off (S5) - WOL Disabled	W	W	W	Use for EuP	
				Use for Eup	
EPS No-load (External power supply / charger plugged in the wall outlet but disconnected from the product.)	0.30 W	0.31 W	0.41 W		
TEC Typical Energy Consumption	kWh/week	kWh/week	kWh/week		
ETEC * Annual Energy Consumption	84.6 kWh/year	85.3 kWh/year	84.8 kWh/year	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.6 + P_{sleep} \times 0.1 + P_{idle} \times 0.3)$	
	Poff: Off Mode(S5) -	WOL Enabled; P _{sleep} :	Sleep Mode(S3) - WC	DL Enabled; P _{idle} : Idle State - WOL Enabled	
Display resolution : 1920*1	200 Megapixels				
Print Speed :	Images per minut	te			
Default time to enter energy s	- ·	minutes			
а. С	the energy save fund		the product		
	s the energy requiren	•	•		
ENERGY STAR®) dated July 1, 2009	Product category:	C if System Memory ≥ 2GB	F
P10 Emissions					
Noise emission	- Declared according	to ISO 9296			
P10.1 Mode	Mode description		Declared A-weighted sound power	Declared A-weighted sound pressure level $L_{p\rm Am}$ (dB)	
			level L_{WAd} (B)	Operator position Bystander positions	
				Desktop A constraints of the con	
Idle	* HDD: Idle		* 3.5	32	
Operation	* HDD: Operating		* 3.6	32	
Other mode					
Measured accord	ing to: 🔀 ISO7779 [ECMA-74 (only if not c	overed by ECMA-7	4 with L_{pAm} measurement distance	
	m)				

Model nu	Model number * ThinkPad W701/W701ds					
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Issue dat	e *	2010, March 1 Logo	le	no	vo	
Draduat	onvironn	nental attributes - Market requirements (continued)	Ba	auirar	mant	mot
Item	environi	nental attributes - market requirements (continued)	Rec	<mark>quirer</mark> Yes	No	n.a.
nem	Chomic	al emissions from printing products		103	INC	n.a.
P10.3*						
P10.4		formed according to ECMA-328 (ISO/IEC 28360) standard, other specify: emission rate (print phase) is (mg/h):				
F 10.4	••					
P10.5		Dust Ozone Styrene Benzene TVOC al emission requirements of the following voluntary program/s are met for : are met for :				
P10.5						\boxtimes
P10.6		nagnetic emissions er display meets the requirement for low frequency electromagnetic fields of the following volunt	ton			
	program	/s: MPR-II	ary			
P11	Consum	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).			\boxtimes
P11.2*	Paper c EN1228	ontaining post-consumer recycled fibers can be used, provided that it meets the requirement.	ents of			\boxtimes
P11.3*	2-sided	(duplex) printing/copying is an integrated product function.				\square
P12	Ergono	nics for computing products		<u> </u>		
P12.1*		lay meets the ergonomic requirements of ISO 9241-307 for visual display technologies. See P1	4			
P12.2*	The phy	sical input device meets the requirements of ISO 9995 and ISO 9241-410. See P14			Ħ	Ħ
P13	Packagi	ng and documentation				
P13.1*	Product Product	packaging material type(s): Corrugated cardboard weight (kg): 0.972 packaging material type(s): Polyethylene weight (kg): 0.107 packaging material type(s): weight (kg): 0.107				
P13.2*		plastic packaging is free from PVC.		\square		
P13.3*		media for user and product documentation (tick box):				
		ic 🔀, Paper 🔀, Other 📃				
P13.4*	fiber: 0	er user and product documentation, please specify contained percentage of post-consumer recy % (Japan only 70%)	/cled			
P14		nal information (See Note B4)				
	informati knowled	Supplier makes no representations, guarantees, assurances or warranties whether express or ion contained in this document. All information provided by supplier in this document is provided ge available at the time of completion, and supplier shall have no obligation to update such info I here is approximate and provided for informational purposes only. See a Lenovo Account Rep ion.	d based or rmation. T	n suppl The info	lier's ormati	
P7.17		does not contain free TBBPA in printed circuit boards(without components)>25g.				
P9		ergy Star Qualified Notebooks & Tablet Computers for the latest information:				
	http://downloads.energystar.gov/bi/qplist/laptops_prod_list.xls					
P12.1		t is designed to meet the subject ISO Standard 9241-307, but is not confirmed through for				
P12.2	Product method	t is designed to meet the subject ISO Standard 9995 and 9241-410, but is not confirmed these S.	irough fo	rmai te	est	

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