

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 *	ThinkVision	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.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 *	Display				
Commercial name *	T2324d				
Model number *	60F3				
Issue date *	2016.04.12				
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		
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 🔀	

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Product	Product environmental attributes - Legal requirements				
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.				
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).				
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.				
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/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 accumulators do not contain more than 0.0005% of mercury or 0.002% of cadmium. (See legal reference)				
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).	\boxtimes			
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).	\boxtimes			
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	ct environmental attributes - Market requirements - Environmental conscious design Requirement 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).		Ш	$\perp \sqcup$	
P7	Design Disassembly, recycling				
P7.1*	Parts that have to be treated separately are easily separable		$\overline{}$		۲
P7.2*	Plastic materials in covers/housing have no surface coating.			쁌	+
P7.3*	Plastic parts >100g consist of one material or of easily separable materials.			+	
P7.4*	Plastic parts >25g have material codes according to ISO 11469 referring ISO 1043.		井	+	+
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.		₩	井	_
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).	$\overline{\mathbb{X}}$	井	井	-
1 7.0	Product lifetime				_
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives		$\overline{}$		-
P7.8*	Upgrading can be done using commonly available tools		井	+	+
P7.9.				井	-
P7.10	Spare parts are available after end of production for: 5 years			井	_
P1.10	Service is available after end of production for: 5 years Material and substance requirements				_
P7.11*	Product cover/housing material type:				-
	Material type: ABS Material type: PC 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	∺		干	+
P7.14	All cover/housing plastic parts >25g are free from chlorine and bromine.			Ħ	-
P7.15	All printed circuit boards (without components) >25g are halogen free. as defined in IEC61249-2-21. (See			+	-
	Note B2)	ш		ш	
P7.16	Flame retarded plastic parts >25g in covers / housings are marked according ISO 1043-4:			X	٦
	Marking:	_			
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		\boxtimes		
	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%:	Ш		\boxtimes	
	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:				
D7.40	Phylican Leader Company (configuration by the behavior of the party of		_	_	
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)			Ш	
P7.20	Of total plastic parts' weight >25g, recycled material content is 43%.				-
P7.21	Of total plastic parts' weight >25g, recycled material content is 43%. Of total plastic parts' weight >25g, biobased material content is 0%.				
P7.22	Light sources are free from mercury			\Box	
P8	Batteries				
P8.1*	Battery chemical composition:			\boxtimes	
P8.2	Batteries meet the requirements of the following voluntary program/s:				

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 environmentar a	tti ibutes - Mai ket	requirements (co	minueuj	Requirement	
Item Yes No n.a. P9 Energy consumption					
	e following power lev	els or energy consu	mptions are reporte	ed: See P14	
The product is shipped w/ WOL Enabled.					
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)	20.38 W	20.3 W	20.27 W	Full load	
Category A	•				
Idle State - WOL Enabled	13.5 W	13.5 W	13.5W	Use for Energy Star V5 registration(P _{idle})	
Sleep (S3) - WOL Enabled	0.2 W	0.21 W	0.26 W	Use for Energy Star V5 registration(P _{sleep})	
Sleep (S3) - WOL Disabled	0.2 W	0.21 W	0.26 W	Reference	
Off (S5) - WOL Enabled	0.17 W	0.17 W	0.23 W	Use for Energy Star V5 registration(Poff)	
Off (S5) - WOL Disabled	0.17 W	0.17 W	0.23 W	Use for EuP	
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 _{sleep})	
Sleep (S3) - WOL Disabled	W	W	W	Reference	
Off (S5) - WOL Enabled	W	W	W	Use for Energy Star V5 registration(Poff)	
Off (S5) - WOL Disabled	W	W	W	Use for EuP	
EPS No-load	W	W	W		
(External power supply / charger plugged in the wall outlet but disconnected from the product.)					
TEC Typical Energy Consumption	kWh/week	kWh/week	kWh/week		
ETEC * Annual Energy Consumption	36.5 kWh/year	36.6 kWh/year	36.9 kWh/year	$E_{TEC} = (8760/1000) \times (P_{off} \times 0.6 + P_{sleep} \times 0.1 + P_{idle} \times 0.3)$	
	P _{off} : Off Mode(S5) - 1	WOL Enabled; P _{sleep} :	Sleep Mode(S3) - WO	L Enabled; P _{idle} : Idle State - WOL Enabled	
Display resolution : 1920 x	1080 Megapixels				
Print Speed : In	nages per minute				\boxtimes
Default time to enter energy s	ave mode: 10 second	ls			
P9.2* Information about	the energy save fund	ction is provided with	the product.		
ENERGY STAR®	s the energy requirent version: Version 7.0			/s:	
Others specify: P10 Emissions					
	- Declared according	to ISO 9296			
P10.1 Mode	Mode description		Declared	Declared A-weighted	
			A-weighted sound power	sound pressure level $L_{p\mathrm{Am}}$ (dB)	
			level $L_{W\!\operatorname{Ad}}(B)$	Operator position Bystander positions	
				or Desk side (only if product is not operator attended)	
Idle	* HDD: Idle				
Operation	* HDD: Operating				
Other mode	t M 1007775	TOMA 74			
Measured accord	_	ECMA-74	ov ECMA-74 with I	_{oam} measurement distance m)	
P10.2 The product meet	s the acoustic noise r				

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_	environr	nental attributes - Market requirements (continued)	Require		
Item			Yes	No	n.a
	Chemic	al emissions from printing products			
P10.3*		formed according to ECMA-328 (ISO/IEC 28360) standard, other specify:			\times
P10.4	Typical e	emission rate (print phase) is (mg/h):			\times
		Dust Ozone Styrene Benzene TVOC			
P10.5		al emission requirements of the following voluntary program/s are met for :			\boxtimes
		Oust Ozone Styrene Benzene TVOC			
		nagnetic emissions			
P10.6	-	er display meets the requirement for low frequency electromagnetic fields of the following voluntary	\boxtimes		
	program				
P11		nable materials for printing products			
P11.1*	,	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 requirements of 1.	f		\boxtimes
P11.3*	2-sided	(duplex) printing/copying is an integrated product function.			\boxtimes
P12	Ergono	mics 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.	\boxtimes		
P13		ng and documentation			
P13.1*	Product Product	packaging material type(s): EPS weight (kg): 0.19 packaging material type(s): Carton weight (kg): 0.818 packaging material type(s): PE weight (kg): 0.028			
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*	For pape	er user and product documentation, please specify contained percentage of post-consumer recycled 5% (Japan only 70%)			
P14	Addition	nal information (See Note B4)			

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