

Ecma/TC38-TG3/2015/025 (Rev. 1 – 15 April 2015)

Annex B1 - Product environmental attributes Imaging equipment

The declaration may be published only when all rows and/or fields marked with * are filled-in (n.a. for not applicable). Additional information regarding each item may be found under P15.

Brand *	Brother	Logo
Company name *	Brother International Europe	
Contact information *	Stephen Kimber	
e-mail address	steve.kimber@brother.co.uk	
Internet site *	www.brother.com	
Additional information		

The company declares (based on product specification or test results based obtained from sample testing), that the product								
conforms to the statement	conforms to the statements given in this declaration.							
Type of product *	Electro-photographic Printer							
Commercial name *	HL-L2357DW							
Model number *	HL-L2357DW							
Issue date *	12/January/2018							
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.

About Annex B1

Annex B1 reflects Product environmental attributes relevant for Imaging products. The following items from the ECMA-370 Main body are not shown in the template:

P9.1 PTEC, ETEC and display resolution P12.1-P12.2 Ergonomic requirements.

Model n	umber *	HL-L2357DW	Logo					
Issue date *		12/January/2018						
Product	t environ	mental attributes - Legal requirements		Req	uire	ment	met	
Item				<u> </u>	′es	No	n.a.	
P1		bus substances and preparations to do comply with the current European RoHS Directive. (See legal reference and N						
P1.1*								
P1.2*	Products		\mathbf{X}					
P1.3*		nt: Legal reference has no maximum concentration value.						
1 1.0	hydrobro trichloroe	mofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetract ethane, methyl bromide (see legal reference). Comment: Legal reference has no n		,1-				
		ation values.	I and a set of all					
P1.4*	terpheny	e do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polych I (PCT) in preparations (see legal reference).						
P1.5*	chain co	o do not contain more than 0,1% short chain chloroparaffins (SCCP) with 10-13 car ntaining at least 48% per mass of chlorine in the SCCP (see legal reference).			\mathbf{X}			
P1.6*	(see lega	h direct and prolonged skin contact do not release nickel in concentrations above (al reference).),5 μg/cm²/	/week				
P1.7*	REACH	ht: Max limit in legal reference when tested according to EN1811:2011-5. Article 33 information about substances in articles is available at (add URL or mail other.eu/reach	contact):	[\mathbf{X}			
P2	Batterie	S						
P2.1*		duct contains a battery or an accumulator, the battery/accumulator is labeled with Information on proper disposal is provided in user manual. (See legal reference)	the dispos	al			\square	
P2.2*	Batteries	legal			\square			
P2.3*	Batteries	Batteries and accumulators are readily removable. (See legal reference)						
P3	Conform	nity verification & Eco design (ErP)						
P3.1*	The Dec	Huct is CE-marked to show conformance with applicable legal requirements (see le laration of Conformity can be requested at (add link or e-mail address): upport.brother.com/g/b/productsearch.aspx?c=gb⟨=en	gal referen	ce).	\boxtimes			
P3.2*	The proc	luct complies with the Eco design requirements for energy-related products, al reference).			\mathbf{X}			
	Required information is; given in item P15 or added to this document, available at (add URL):							
		pport.brother.com/g/b/productsearch.aspx?c=gb⟨=en						
P4		able materials	0.040/ /					
P4.1*		o conductor (drum, belt etc.) is used in the product, it does not contain cadmium materiate and NOTE B1).	ax 0,01% (see	\mathbf{X}			
P4.2*		er is used in the product, it does not contain cadmium max 0,1% by weight (see leg	gal referen	ce).	\times			
P4.3*	If the ink/toner formulation/preparation is classified as hazardous or contains a substance for which there are Community workplace exposure limits, the product/packaging is adequately labeled according to applicable regulations and a Safety Data Sheet (SDS) in accordance with these requirements is available							
P5	<u>,</u>	al reference). packaging						
P5.1*	Packagii	ng and packaging components do not contain more than 0,01% lead, mercur ent chromium by weight of these together.	y, cadmiu	m and	\triangleleft			
P5.2*	The pac	kaging materials are marked with abbreviations and numbers indicating the nature e legal reference).	of the mate	erial(s)	\mathbf{X}			
P5.3*	The pro	duct packaging material is free from ozone depleting substances as specified (see legal reference).	in the Mo	ontreal	\mathbf{X}			
	Commer	nt: Legal reference has no maximum concentration values.						
P6		nt information						
P6.1*	Informati	on for recyclers/treatment facilities is available (see legal reference).			\ge			

NOTE B1 Restriction applies to the homogeneous material, unless other specified and expressed in weight %. Stating "Yes" means that the product is compliant with the mandatory requirements.

Model nu	umber *	HL-L2357DW	Logo							
Issue date *		12/January/2018								
		mental attributes - Market requirements (See General NOTE GN below)								
		nental conscious design		Require						
Item P7		tory to fill in. Additional information regarding each item may be found under P14.		Yes	No	n.a.				
F <i>1</i>	Design Disasser	nbly, recycling								
P7.1*		t have to be treated separately are easily separable								
P7.2*	Plastic materials in covers/housing have no surface coating.									
P7.3*	Plastic pa	arts > 100 g consist of one material or of easily separable materials.			Ħ					
P7.4*	-	arts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.			Ħ					
P7.5	Plastic pa	arts are free from metal inlays or have inlays that can be removed with commonly ava	ilable tools.		Ħ	- <u>H</u> -				
P7.6*		e easily separable. (This requirement does not apply to safety/regulatory labels).			H	H				
	Product									
P7.7*	Upgradin	g can be done e.g. with processor, memory, cards or drives			\square					
P7.8*	Upgradin	g can be done using commonly available tools								
P7.9.	Spare pa	rts are available after end of production for: 7 years								
P7.10	Service is	s available after end of production for: 7years								
	Material	and substance requirements								
P7.11*		cover/housing material type (e.g. plastics, metal, aluminum): ype: PS-HI Material type: PC/ABS Material type:	ype: ABS							
P7.12	Insulation materials of external electrical cables are PVC free.									
P7.13	Insulatior	n materials of internal electrical cables are PVC free.								
P7.14	External plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 0,1% weight (1000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardants, and polyvinyl chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in parts containing more than 25% post-consumer recycled content.									
P7.15	Printed of	sircuit boards, PCBs (without components) are low halogen: all PCBs > 25 as defined in IEC 61249-2-21. (See NOTE B2)	g 🗌 are Ic	w 🗌	\square					
P7.16	Flame re	tarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: FR(40)		\boxtimes						
P7.17		emical specifications of flame retardants in printed circuit boards > 25 g (without com	ponents):							
	TBBPA (additive) $$, TBBPA (reactive) $$ (See NOTE B3), Other; chemical name: ,	CAS #:	\bowtie						
	according	emical specifications of flame retardants in printed circuit boards (without component g ISO 1043-4:								
P7.18	concentra 1. Chemi 2. Chemi	ame retarded plastic parts > 25 g contain the following flame retardant substances/p ations above 0,1%: cal name: , CAS #: (See NOTE B4) cal name: , CAS #: " cal name: , CAS #: "	preparations	in						
		nemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4	4:	\boxtimes						
P7.19	In plastic assigned	parts > 25 g, flame retardant substances/preparations above 0,1% are used which has the following Risk phrases; and Hazard statements:								
D7 20*			DTE B5)							
P7.20*	lf YES; a a) Of to	umer recycled plastic material content is used in the product (See NOTE B6): t least one of the two alternatives below shall be answered; otal plastic parts' weight > 25 g, the postconsumer recycled plastic material content (c entage of total plastic by weight) is 0.16 %.	calculated as	a						
		weight of recycled material is g.								

GENERAL NOTE Standard references should direct to the latest version of a standard. If an older version of a standard is used, section P15 shall be used for explanation.

NOTE B2 IEC 61249-2-21 defines maximum limits of 900 ppm for each of the substances chlorine and bromine and a maximum limit of 1500ppm of these substances combined. The standard does not address fluorine, iodine and astatine which are included in the group of halogens.

NOTE B3 and B4 A Guidance document on Chemical substances is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

NOTE B5 If a certain substance has been assigned a certain risk phrases / hazard statement in the referenced source, this does not necessarily mean the substance has been tested for all of the hazards referred to by a certain customer.

NOTE B6 Applies to a product containing plastic parts whose combined weight exceeds 100 g with the exception of printed circuit boards, cables, connectors and electronic components and bio-based plastic material.

Model nu	mber *	HL-L2357	DW			Logo					
Issue date	e *	12/Januar	anuary/2018								
	environr	nental attr	ibutes - Market ree	quirements (con	tinued)		R		ement		
Item								Yes	No	n.a.	
P7.21*	Biobase	d plastic ma	ance requirements (c terial content is used i	n the product (See							
17.21									\bowtie		
	a) Of tota or	total plastic al plastic by		the biobased plastic	werea; c material content (calcula	ated as a perce	entage of				
P7.22*			e from mercury, i.e. le becify: Number of lamp		p. mum mercury content per	lamp:	mg	\boxtimes			
P8	Batterie	-									
P8.1*	•	chemical cor	•							\boxtimes	
P9		-	on (See NOTE B8)								
P9.1	For the p	product the f	ollowing power levels	or energy consump	tions are reported:						
Energy mo	ode *		Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference/St modes and te			energy		
Sleep moo STAR® O (OM) prod	perational		W	W	W						
Standby/off mode for ENERGY STAR Operational Mode (OM) products			W	W	W						
TEC value for ENERGY STAR TEC products		RGY STAR	kWh/week	kWh/week	1.18 kWh/week						
(TEC= Typ Printing		уу	W	W	Approx. 460 W						
	ode/Printi	na	W	W	Approx. 265 W					늼	
Ready			W	W	Approx. 48 W					븜	
Sleep			W	W	Approx. 40 W					⊢	
Deep Sle			W	W	Approx. 5.7 W					⊢⊢	
										ᆜ	
Power C		-	W	W	Approx. 0.03 W					_⊔	
	ed Stand	-	W	W	Approx. 4.6 W						
External P	ower Sup	ply Efficienc	y Level (International I	Efficiency Marking F	Protocol) * :					\boxtimes	
Print/Scan	•	:	30 images per seco	nd							
Default tim	ne to enter	energy sav	e mode: 1 minu	tes							
P9.2*			e energy save function	n is provided with th	e product.			\square			
P10	Emissio										
Noise emission – Declared according to ISO 9296 (Ser						abted as well	nou en las				
P10.1	Mode	M	ode description		Statistical upper limit A-we L _{WA,c} (B)	eighted sound	power lev	əl,			
	Idle	*		•	¢.						
	Operatio	n *	Printing(mono)		6.56						
	Other m	ode									
	Measure	ed according			covered by ECMA-74)						

NOTE B7 The following is to be excluded from the calculation of percentage: printed circuit boards, labels, cables, connectors and electronic components and postconsumer recycled plastic.

NOTE B8 A Guidance document on Energy Efficiency is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

NOTE B9 A Guidance document on Acoustic Noise is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

Model nu	mber *	HL-L2357DW						Logo			
Issue date *		12/January/2018									
Product	environ	mental attributes	- Market r	equirem	ents (con	tinued)			Require	ment	me
Item									Yes	No	n.a
	Chemio	cal emissions from	printing pro	ducts (Se	e NOTE E	310)					
P10.2*	Test pe	rformed according to ent (ISO/IEC 28360)	ECMA-328	Determina	ation of Ch	emical Er	nission Rates fro	m Electronic	\square		
P10.3		emission rate (opera									
			. ,	,	_		Devee	TV00			
	Electrop	photographic devices	s: Ozone	Dust Dust		Styrene	Benzene	TVOC TVOC			Ļ
	Ink dev	ices.		Dusi	c	Styrene	Benzene	TVUC			
	Note: c	ompliance with maxi	mum emissio	on rates in	eco labels	to be dee	clared in P14.				
P11		mable materials for									
P11.1*	A Safet	y Data Sheet (SDS)	is available f	or the ink/	toner prepa	aration, e	ven if not legally	required (see P4.3	i). 🔀		
P11.2*	Paper o EN 122	containing post-cons 81.	sumer recycl	ed fibers	can be us	sed, prov	ided that it mee	ts the requiremen	ts of 🔀		
P11.3*	2-sided	(duplex) printing/cor	pying is an in	tegrated p	product fun	ction.			\boxtimes		
P11.4*	The pro	duct is delivered to	end-user with	default a	uto-duplex	enabled.					Ē
P13	The product is delivered to end-user with default auto-duplex enabled.										
P13.1*	Product	t packaging material t packaging material t packaging material	type(s): PS	- E	W	eight (kg) veight (kg veight (kg): 0.18				
P13.2*		t plastic primary pack			C.				\square		
P13.3*	For pro	duct primary corrug	ated fiberbo	ard packa	aging, spec	ify the c	ontained percen	tage of minimum	post-		
		ner recovered fiber c		50 %				-			
P13.4*		media for user and nic 🔀, Paper 🔀, C		mentation	(tick box):						
P13.5	Úser ar	only complete this ind product document please specify:	tem if paper tation on pap	documenta er media i	ation used) s chlorine-	free:					
	Totallv	chlorine-free									
	Elemental chlorine-free										
		sed chlorine-free							H		
P14		ary programs:									
P14.1											
		GY STAR®	Criteria ve		-		July/2017	Product category	Imaging E	auinn	non
	-	bel: Blue Angel	Criteria ve				3/July/2017 B/July/2017	Product category with Printing Fu	: Office Equ		
	Eco-lab	el: Nordic Swan	Criteria ve	rsion: 6		Date: 18	3/August/2017	Product category		quipn	nen
P15	Additio	onal information (Se	e NOTE B1	1)			-	<u> </u>	~ ~		

NOTE B10 A Guidance document on Chemical Emissions is available; see http://www.ecma-international.org/publications/standards/Ecma-370.htm

NOTE B11 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 B1

Reference	Declaration item
Directive 2011/65/EU (RoHS Directive) * * Specific exemptions apply for certain products and applications.	P1.1, P4.1
(EC) 1907/2006(REACH, Annex XVII	P1.2, P1.4, P1.6, P1.7, P4.2
Regulation (EC) No. 2037/2000, 2038/2000, 2039/2000, (Marketing and use of Ozone layer depleting substances)	P1.3, 5.3
Norwegian regulation relating to restrictions on the use of certain dangerous chemicals 20.12.2002	P1.5
"REACH" Regulation (1907/2006), annex VII	P1.10
Directive 2013/56/EC (Battery and accumulators Directive) * * These provisions shall not apply where, for safety, performance, medical or data integrity reasons, continuity of power supply is necessary and requires a permanent connection between the appliance and the battery or accumulator.	P2.1, P2.2, P2,3, P8.1
Directive 2006/95/EC (Low Voltage Directive)	P3.1
Directive 2004/108/EC (EMC Directive)	P3.1
Directive 1999/5/EC (R&TTE Directive)	P3.1
Regulation (EC) 801/2013 amending Regulation (EC) No 1275/2008 with regard to ecodesign requirements for standby, off mode electric power consumption of electrical and electronic household and office equipment, and amending Regulation (EC) No 642/2009 with regard to ecodesign requirements for televisions	P3.1, P3.2
Regulation (EC) 1907/2006 (REACH Regulation), Article 31, annex II)	P4.3
Regulation (EC) 1272/2008 (CLP Regulation)	P4.3, P7.19
Directive 2004/12/EC (Packaging Directive)	P5.1
Decision 97/129/EC (Secondary packaging legislation)	P5.2
Directive 2012/19/EU (WEEE directive)	P6.1