



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.

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	based on product specification or test results based obtained from sample testing), that the product nts given in this declaration.
Type of product *	Mono MFP
Commercial name *	M 320FB
Model number *	M 320FB
Issue date *	18 February 2022
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.

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Model number *	M 320FB	Logo	
Issue date *	18 February 2022		

Produc	t environmental attributes - Legal requirements	Require	emen	t met
Item		Yes	No	n.a.
P1	Hazardous substances and preparations			
P1.1*	Products do comply with the current European RoHS Directive. (See legal reference and NOTE B1)	\boxtimes		
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), 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).			
P1.6*	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 μg/cm²/week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:2011-5.			
P1.7*	REACH Article 33 information about substances in articles is available at (add URL or mail contact): reu.compliance@ricoh-europe.com			
P2	Batteries			
P2.1*	If the product contains a battery or an accumulator, the battery/accumulator is labeled with the disposal symbol. Information on proper disposal is provided in user manual. (See legal reference)			
P2.2*	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 readily removable. (See legal reference)	\boxtimes		
P2.4*	Documentation includes the number of cycles the (secondary) battery can withstand. (See legal reference)	- 		
	· · · · · · · · · · · · · · · · · · ·	<u> </u>		<u> </u>
P2.5*	When internal batteries of a notebook computer cannot be "accessed and replaced by a nonprofessional user", the related text is present and legible on the external packaging (see legal reference)	Ш		Ш
P3	Conformity verification & Eco design (ErP)			
P3.1*	The product is CE-marked to show conformance with applicable legal requirements (see legal reference). The Declaration of Conformity can be requested at (add link or e-mail address): reu.compliance@ricoheurope.com		Ш	
P3.2*	The product complies with the Eco design Requirements for Energy-Related Products, (see legal reference).			
	Required information is; given in item P15 or added to this document, available at (add URL):			
P4	Consumable materials			
P4.1*	If a photo conductor (drum, belt etc.) is used in the product, it does not contain cadmium at a level greater than 0,01% (see legal reference and NOTE B1).			
P4.2*	If ink/toner is used in the product, it does not contain cadmium at a level greater than 0,1% by weight (see legal reference)	\boxtimes		
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 (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*	The packaging materials are marked with abbreviations and numbers indicating the nature of the material(sused (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.			
P6	Treatment information			
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).	\boxtimes		

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.

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	t environmental attributes - Market requirements (See General Note GN below) Environmental conscious design	Regu	irem	ent met
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes		
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.	\boxtimes		
P7.3*	Plastic parts > 100 g consist of one material or of easily separable materials.	\boxtimes		
P7.4*	Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.	\boxtimes		
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	\boxtimes		
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).			
	Product lifetime			
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	\boxtimes		
P7.8*	Upgrading can be done using commonly available tools	\boxtimes		
P7.9.	Spare parts are available after end of production for: 7 years			
P7.10	Service is available after end of production for: 7 years			
	Material and substance requirements			
P7.11*	Product cover/housing material type (e.g. plastics, metal, aluminum): Material type: PC Material type: ABS Material type:			
P7.12	Insulation materials of external electrical cables are PVC free.		\geq	
P7.13	Insulation materials of internal electrical cables are PVC free.		\geq	
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 circuit boards, PCBs (without components) are low halogen: all PCBs > 25 g are low halogen as defined in IEC 61249-2-21. (See NOTE B2)		\geq	
P7.16	Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: Marking: FR(40)	\boxtimes		
P7.17	Alt. 1: Chemical specifications of flame retardants in printed circuit boards > 25 g (without components): TBBPA (additive) , TBBPA (reactive) (See NOTE B3), Other; chemical name: , CAS #:		\triangleright	
	Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4:		\boxtimes	
P7.18	Alt. 1: Flame retarded plastic parts > 25 g contain the following flame retardant substances/preparations in concentrations above 0,1%: 1. Chemical name: , CAS #: (See NOTE B4) 2. Chemical name: , CAS #: "		×	
	3. Chemical name: , CAS #: " Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4:		\boxtimes	
P7.19	In plastic parts > 25 g, flame retardant substances/preparations above 0,1% are used which have been assigned the following Risk phrases; and Hazard statements: The source(s) for these classifications is/are found at (add URL(s)): , (See NOTE B5)		\boxtimes	

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;

 $see \ \underline{http://www.ecma-internationl.org/publications/standards/Ecma-370.htm}.$

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.

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Product	environmental att	ributes - Market red	quirements (conti	nued)		Require	ment	met
Item				•		Yes	No	n.a.
	Material and subst	ance requirements (c	ontinued)					
P7.20*	Postconsumer recyc	cled plastic material co	ntent is used in the p	roduct (See NOTE B6)	•			
		of the two alternatives			ontant (anlas lates) and			
		parts weight > 25 g, tr total plastic by weight)		cled plastic material co	ontent (calculated as a			
	or b) The weight of r	ecycled material is 43	1.49 a.					
P7.21*		aterial content is used i		OTE B7):			\boxtimes	
	If VEC, at least one	of the two alternatives	halaw ahall ha anaw	ara di		_	_	_
	· ·	of the two alternatives parts' weight > 25 g. t			ated as a percentage of	f		
	total plastic by			(
	or b) The weight of t	he biobased plastic ma	aterial is g.					
P7.22*	Light sources are fre	ee from mercury, i.e. le	ess than 0,1 mg/lamp.					
		pecify: Number of lamp		um mercury content pe				
P7.23*	If product includes a	an integral display, the	total mercury content	in the integrated displa	ay: 0 mg			
P8	Batteries							
P8.1*		mposition: Lithium-ior	n battery (one cell be	attery)				
P9	Energy consumpti	•						
P9.1	*	following power levels	or energy consumption	ons are reported:				
Energy mo	ode *	Power level at 100 V AC	Power level at 115 V AC	Power level at 230 V AC	Reference/Standard modes and test method		nergy	
Operating	mode	W	W	520 W				
Ready mo	de	W	W	65.7 W				
Sleep mod	de	kWh/week	kWh/week	0.87 W				
TEC value)	kWh/week	kWh/week	kWh/week				
		W	W	W				
		W	W	W				
		W	W	W				
		W	W	W				
		W	W	W				
External P	ower Supply Efficienc	y Level (International I	Efficiency Marking Pro	otocol) *:				
Print/Scan	Speed * :	32 images per minute						
Default tim	ne to enter energy sav	ve mode: 0.5 minutes						
P9.2*	Information about th	ne energy save function	n is provided with the	product.		\boxtimes		

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.

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.

Model number *	M 320FB	Logo	
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Product	ct environmental attributes - Market requirements (continued)			Require	ment	met	
Item					Yes	No	n.a.
P10	Emissions						
	Noise emission	- Declared according to ISO 9296 (See I	NOTE B9)				
P10.1	Mode	Mode description	Statistical upper lin $L_{WA,c}$ (B)	nit A-weighted sound power	level,		
	Idle	* The declared A-weighted Sound	* 3.3				
	Operation	* The declared A-weighted Sound	* 6.9				T
	Other mode	_					
		ding to: ISO 7779 ECMA-74 Other	(only if not covered l	oy ECMA-74)			
		sions from printing products (See NOT					
P10.2*		according to ECMA-328 Determination of	Chemical Emission R	ates from Electronic	\boxtimes		
		(IEC 28360), other specify:					
P10.3	Typical emission	rate (operation phase) is (mg/h):					
	Electrophotograp	phic devices: Ozone 1.46 Dust <1.2 St	yrene 0.31 Benzene	e <0.03 TVOC 6.6			
	Ink devices:	Dust	Styrene Benze	ne TVOC			П
	NOTE:lies			D4.4			
P11		ce with maximum emission rates in eco la aterials for printing products	abeis to be declared in	1 P14.			
P11.1*		neet (SDS) is available for the ink/toner pr	reparation, even if not	legally required (see P4.3)	\square	$\overline{}$	$\overline{}$
P11.2*		post-consumer recycled fibers can be us		• • • • •		+	+
	EN 12281.	•				<u> </u>	
P11.3*	2-sided (duplex)	printing/copying is an integrated product	function.		\boxtimes		
P11.4*	The product is de	elivered to end-user with default auto-dup	lex enabled.		\boxtimes		
P13	Packaging and						
P13.1*	Product packagii Product packagii Product packagii	ng material type(s): EPE weight mg material type(s): LDPE weight	weight (kg): 2.042 (kg): 0.371 (kg): 0.037 (kg): 0.6				
P13.2*		rimary packaging is free from PVC.					
P13.3*		ary corrugated fiberboard packaging, spe ered fiber content: %	cify the contained per	centage of minimum post-			
P13.4*	Specify media for Electronic , P	or user and product documentation (tick both aper , Other ,	ox):				
P13.5		nplete this item if paper documentation us at documentation on paper media is chlori ecify:					
	Totally chlorine-f						
	Elemental chlori				Ш		
	Processed chlori						
P14	Voluntary progr						
P14.1	The product mee	ets the requirements of the following volur	ntary program(s):				
	ENERGY STAR(Eco-label: <i>BAM</i> Eco-label:	® Criteria version: See P9.1Criteria version:Criteria version:	Date: Date: Date:	Product category: Product category: Product category:			

NOTE B9 A Guidance document on Acoustic Noise is available;

 $see \ \underline{\text{http://www.ecma-international.org/publications/standards/Ecma-370.htm}}.$

NOTE B10 A Guidance document on Chemical Emissions is available;

 $see \ \underline{http://www.ecma-international.org/publications/standards/Ecma-370.htm}.$

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Product environmental attributes - Market requirements (concluded)				
P15 Additional information (See NOTE B11)				

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, P3.1
Commission Regulation (EC) 1907/2006 (REACH Regulation), annex XVII	P1.2, P1.4, P1.6, P1.7, P4.2
Commission Regulation (EC) 1907/2006 (REACH Regulation), annex VII	P1.10
Commission Regulation (EC) 1907/2006 (REACH Regulation), Article 31, annex II)	P4.3
Commission 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
Directive 2006/66/EC (Battery and accumulators Directive), as amended.* * 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 2014/35/EU (Low Voltage Directive)	P3.1
Directive 2014/30/EU (EMC Directive)	P3.1
Directive 2014/53/EU (RE Directive)	P3.1
Commission Regulation (EC) No 1275/2008 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for standby and off mode electric power consumption of electrical and electronic household and office equipment (Standby Regulation)	P3.1, P3.2
Commission 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	
Commission Regulation (EU) No 617/2013 of 26 June 2013 implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for computers and computer servers	
Commission Regulation (EC) 1272/2008 (CLP	P4.3, P7.19
Regulation)	
Directive 2004/12/EC (Packaging Directive)	P5.1

Directive 2012/19/EU (WEEE directive) Implementing Regulation (EU) 2019/290 establishing the format for registration and reporting of producers of electrical and electronic equipment to the register. Commission Implementing Regulation 2017/699 establishing a common methodology for the calculation of the weight of electrical and electronic equipment (EEE) placed on the national market in each Member State and a common methodology for the calculation of the quantity of waste electrical and electronic equipment (WEEE) generated by weight in each Member State.