



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 *	Ricoh	Logo
Company name *	Ricoh Company, Ltd.	
Contact information *	Ricoh Europe SCM B.V., Blankenweg 24, 4612 RC Bergen of	RICOH
e-mail address	Zoom, The Netherlands	
	emo@ricoh-europe.com	imagine. change.
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Internet site *	www.ricoh.com	
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 *	A4 Mono Printer			
Commercial name *	P 501			
Model number *	P 501			
Issue date *	1.4.2019			
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 number *	P 501	Logo	
Issue date *	1.4.2019		RICOH imagine. change.

Product	duct environmental attributes - Legal requirements				
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)				
P1.2*	Products do not contain Asbestos (see legal reference).				
P1.3*	Comment: Legal reference has no maximum concentration value.				
P1.3"	Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrochlorofluorocarbons (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	\square			
	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				
P1.6*	chain containing at least 48% per mass of chlorine in the SCCP (see legal reference). Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 µg/cm²/week				
F 1.0	Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 μg/cm ⁻ /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):	\square \square \square			
P2	Batteries				
P2.1*	If the product contains a battery or an accumulator, the battery/accumulator is labeled with the disposal				
D0.0*	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 lega reference)				
P2.3*	Batteries and accumulators are readily removable. (See legal reference)	\square			
P3	Conformity verification & Eco design (ErP)				
P3.1*					
	The Declaration of Conformity can be requested at (add link or e-mail address):				
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 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).				
P4.3*	If the ink/toner formulation/preparation is classified as hazardous or contains a substance for which there				
1.0	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	d 🔀 🗍			
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(s)				
	used (see legal reference).				
P5.3*	The product packaging material is free from ozone depleting substances as specified in the Montreal Protocol				
	(see legal reference).				
P6	Comment: Legal reference has no maximum concentration values. Treatment information				
P6.1*	Information for recyclers/treatment facilities is available (see legal reference).				
. 5. 1	member to respect and an individual to a railable (see regar release).				

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 number *	P 501	Logo	Discour
Issue date *	1.4.2019		RICOH imagine. change.

	Product environmental attributes - Market requirements (See General NOTE GN below)				
	•			t met	
Item	*=mandatory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.	
P7	Design Disassembly, recycling				
P7.1*	Parts that have to be treated separately are easily separable	\square	$\overline{}$		
P7.2*	Plastic materials in covers/housing have no surface coating.	\square	H	-H	
P7.3*	Plastic parts > 100 g consist of one material or of easily separable materials.		H		
P7.4*	Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.	\overline{X}	∺		
P7.5	Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools.	\overline{X}	H		
P7.6*	Labels are easily separable. (This requirement does not apply to safety/regulatory labels).		Ħ		
	Product lifetime				
P7.7*	Upgrading can be done e.g. with processor, memory, cards or drives	\square	П		
P7.8*	Upgrading can be done using commonly available tools		Ħ		
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+ABS Material type: Material type:				
P7.12	Insulation materials of external electrical cables are PVC free.		\boxtimes		
P7.13	Insulation materials of internal electrical cables are PVC free.		\boxtimes		
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 haloger as defined in IEC 61249-2-21. (See NOTE B2)				
P7.16	Flame retarded plastic parts > 25 g 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 > 25 g (without components):				
	TBBPA (additive) , TBBPA (reactive) (See NOTE B3), Other, chemical name: , CAS #:				
	BFRs are used, which are not restricted of their inclusion by regulations Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g				
	according ISO 1043-4:				
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)	Ш			
	2. Chemical name: , CAS #: "				
	3. Chemical name: , CAS #: "				
	<u>Alt. 2:</u> Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4: <i>FR(40)</i>	\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)				
P7.20*	Postconsumer recycled plastic material content is used in the product (See NOTE B6):	\boxtimes			
	If YES; at least one of the two alternatives below shall be answered;				
	a) Of total plastic parts' weight > 25 g, the postconsumer recycled plastic material content (calculated as a				
	percentage of total plastic by weight) is 7.9% . or b) The weight of recycled material is g.				
	b) The 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 number *					
Issue date *	1.4.2019				imagine. change.
Product environr	Product environmental attributes - Market requirements (continued)				Requirement met
Item			·		Yes No n.a.
	and substance require				
P7.21* Biobase	d plastic material content	t is used in the product (S	See NOTE B7):		
a) Of total or	total plastic by weight) is <0.002%.				
	rces are free from merc y is used specify: Numb	ury, i.e. less than 0,1 mg. er of lamps:	/lamp. naximum mercury content pe	er lamp: n	ng 🔲 🔲
P8 Batterie	3				
P8.1* Battery of	hemical composition: Ma	anganese dioxide lithiu	m battery		
P9 Energy	consumption (See NOT	E B8)			
P9.1 For the p	product the following pow	er levels or energy cons	umptions are reported:		
Energy mode *	Power le 100 V			Reference/Sta modes and te	
Sleep mode for ENE STAR® Operational (OM) products		W	W		
Standby/off mode fo ENERGY STAR Open Mode (OM) products	erational	W	W		
TEC value for ENER		week kWh/we	eek 1.712 kWh/week		
(TEC= Typical Energy					
Operating Mode	W	W	596.9 W		
Ready Mode	W	W	78.6 W		
Sleep Mode	W	W	0.5 W0		
	W	W	W		
	W	W	W		
	W	W	W		
External Power Supp	oly Efficiency Level (Inter	national Efficiency Marki	ng Protocol) * :		
Print/Scan Speed *	int/Scan Speed * : 43 images per minute				
	energy save mode: 1 m				
P10 Emissions Noise emission – Declared according to ISO 9296 (See NOTE B9)					
P10.1 Mode	Mode descripti		Statistical upper limit A-w $L_{WA,c}$ (B)	veighted sound p	ower level,
Idle	Idle * Stand-by * 3.2				
Operation			* 6.9		
Other m	Other mode See section P 15				
Measure	d according to: X ISO		ered 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 nun	nber *	P 501	Logo	_			
Issue date	*	1.4.2019		imagine. change.			
Product of	oduct environmental attributes - Market requirements (continued) Requirement met					met	
Item	2114110111	mental attributes - market requirements (continued)		110	Yes	No	n.a.
		cal emissions from printing products (See NOTE B10)					
P10.2*	-	rformed according to ECMA-328 Determination of Chemical Emission Rates from E ent (ISO/IEC 28360), other specify: <i>RAL-UZ205</i>	lectronic				
P10.3	Typical	emission rate (operation phase) is (mg/h):					
	Ink devi	chotographic devices: Ozone <0.2 Dust <0.18 Styrene 0.056 Benzene <0.007 ces: Dust Styrene Benzene compliance with maximum emission rates in eco labels to be declared in P14.	TVOC 7	2			
P11		nable materials for printing products					
P11.1*		y Data Sheet (SDS) is available for the ink/toner preparation, even if not legally requ	ired (see	P4.3).	\square	П	П
P11.2*		containing post-consumer recycled fibers can be used, provided that it meets the					
P11.3*	2-sided	(duplex) printing/copying is an integrated product function.			\boxtimes		
P11.4*	The pro	duct is delivered to end-user with default auto-duplex enabled.			\boxtimes		
P13		ing and documentation					
P13.1*	Product	packaging material type(s): Corrugated Paper weight (kg): 2.62 packaging material type(s): Plastic weight (kg): 0.464 packaging material type(s): weight (kg):					
P13.2*		plastic primary packaging is free from PVC.			\boxtimes		
P13.3*		duct primary corrugated fiberboard packaging, specify the contained percentage er recovered fiber content:	of minim	um post-			
P13.4*		media for user and product documentation (tick box): nic , Paper , Other .					
P13.5	Ùser an	only complete this item if paper documentation used) d product documentation on paper media is chlorine-free: olease specify:					
	Totally o	chlorine-free			\boxtimes		
	Elemen	tal chlorine-free					
	Process	sed chlorine-free					
P14		ary programs:					
P14.1	•	duct meets the requirements of the following voluntary program(s):					
			category: /	Printer			
P15		nal information (See NOTE B11)	oatogory.				
		oduct is designed to utilize recycled plastic materials wherever available					
	Stand-k	ed A-weighted sound pressure level L _{PAm} (dB) in operation position by: 23.2 (dB) ing Mode; 56.7(dB)					
	Comme	nt A (PVC):					
	The PVC is restricted to use only for the packing materials. The following is Ricoh Group Green Procurement's standpoint for the PVC use for the products:						
	Please refer to the latest Ricoh Group Green Procurement Guideline below;						
	http://ext.ricoh.co.jp/ecology/guideline/pdf/image_e_ver7.pdf						
	Ricoh deleted the restriction of use of PVC as steted in the above as "Until now, PVC contained in products is restricted to use since we concerned environmental impact after product disposal and hazardous property of additives. At this time we have reviewed a scope of PVC restricted use by confirming public movement and concern surrounding PVC.						
	Comment B (Flame retardants in the PCB):						
	There is	s a same kind of requirement in the EPEAT criteria 4.1.6.2 :					
	laminate	ed circuit board laminates included in the product excluding components soldere es shall contain no more than 0.1 % weight. (1000ppm) bromine and 0.1 % weisted flame retardants (BFRs) and chlorinated flame retardants (CFRs), with the follower.	ght. (1000)ppm) chlor			

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.

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

. Uses of brominated or chlorinated substances that are not classified as BFRs or CFRs are allowed, but their use shall be documented if the bromine or chlorine content exceeds the applicable threshold.

. . . .

IEC 61249-2-21 establishes limits on elemental bromine (900 ppm) and chlorine (900 ppm), and a combined limit of (1500 ppm.) Demonstration of conformance with the threshold limits established in IEC 61249-2-21 meets the requirements of this criterion.

However, any registered MFP/Printer/Scanner products, 620 products registered as of today including Ricoh/Canon/KonicaMinolta/HP/Xerox/Samsung/Lexmark/Toshiba/Dell/Epson/Kodak/Kyocera, do not comply yet to this requirement. It is said that it seems difficult for the PCB manufacturers to meet this requirement from the technical reasons.

Comment C (Risk Phrase classified flame retardant):

We confirmed the plastic manufacturers and obtained their declarations that the plastic materials used in the products are compliant with the Blue Angel criteria

*Only flame retardants classified as R53 might be contained as above 0.1%.

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