

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 * e-mail address	Ricoh Europe SCM B.V., Blankenweg 24, 4612 RC Bergen of Zoom, The Netherlands emo@ricoh-europe.com	RICOH imagine. change.
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 *	24.9.2019						
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 n	umber *	P 501	Logo			
Issue date *		24.9.2019		RIC imagine.	Change.	
Produc	t environ	mental attributes - Legal requirements		Require	ment	met
Item				Yes	No	n.a.
P1		bus substances and preparations	075.5.0			
P1.1*		s do comply with the current European RoHS Directive. (See legal reference and N	OTE B1)	\square		
P1.2*	Comme	s do not contain Asbestos (see legal reference). nt: Legal reference has no maximum concentration value.				
P1.3*	hydrobro trichloro	s do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), pmofluorocarbons (HBFC), hydrochlorofluorcarbons (HCFC), Halons, carbontetrach ethane, methyl bromide (see legal reference). Comment: Legal reference has no n ration values.				
P1.4*	terpheny	s do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polych (I (PCT) in preparations (see legal reference).		\square		
P1.5*	Products	s 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).	bon atoms in t	he 🔀		
P1.6*	(see leg	th direct and prolonged skin contact do not release nickel in concentrations above (al reference). ht: Max limit in legal reference when tested according to EN1811:2011-5.),5 μg/cm²/we	ek 🔀		
P1.7*	REACH	Article 33 information about substances in articles is available at (add URL or mail	contact):	\square		
P2	Batterie	S				
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)			\boxtimes		
P2.2*	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 readily removable. (See legal reference)					
P3	Conform	nity verification & Eco design (ErP)				
P3.1*	The proc	duct is CE-marked to show conformance with applicable legal requirements (see legal requirements) and the legal address):	gal reference)			
P3.2*	The proc	duct complies with the Eco design requirements for energy-related products, al reference).		\boxtimes		
	Required information is; given in item P15 or added to this document, available at (add URL):				\square	
P4		nable 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 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		packaging				
P5.1*	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*	(see lega Comme	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		nt information				
P6.1*	Informati	on for recyclers/treatment facilities is available (see legal reference).		\square		

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 n	umber *	P 501	Logo				
Issue date *		24.9.2019		RICOH imagine. change.			
	Environn	mental attributes - Market requirements (See General NOTE GN below) nental conscious design		Require	ment	met	
Item		tory to fill in. Additional information regarding each item may be found under P14.		Yes	No i	า.a.	
P7	Design	mbly recycling					
P7.1*		mbly, recycling t have to be treated separately are easily separable					
P7.2*		aterials in covers/housing have no surface coating.			<u>-</u>	<u> </u>	
P7.3*		arts > 100 g consist of one material or of easily separable materials.			<u> </u>	<u> </u>	
P7.4*		arts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.			<u> </u>	<u> </u>	
P7.4 P7.5	•	arts are free from metal inlays or have inlays that can be removed with commonly ava	ilable teolo		<u> </u>	<u> </u>	
-	-				<u> </u>	<u> </u>	
P7.6*		re easily separable. (This requirement does not apply to safety/regulatory labels).					
P7.7*	Product	g can be done e.g. with processor, memory, cards or drives					
P7.7		g can be done using commonly available tools			<u> </u>	<u> </u>	
P7.8" P7.9.		g can be done using commonly available tools		\square		<u> </u>	
-	• •					<u> </u>	
P7.10		s available after end of production for: 7 years					
P7.11*		and substance requirements					
P7.11		cover/housing material type (e.g. plastics, metal, aluminum): type: PC+ABS Material type: Material t	vne.				
P7.12		n materials of external electrical cables are PVC free.	ypo.		\square		
P7.13		n materials of internal electrical cables are PVC free.		<u> </u>		⊢⊢	
P7.14		plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bror	mine and 0.	1%			
	weight (1 polyvinyl	000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame r chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine in p n 25% post-consumer recycled content.	etardants, a	ind 📩			
P7.15		ircuit boards, PCBs (without components) are low halogen: all 🗌 PCBs > 25 g 🗌 a	re low haloo	ien	\boxtimes		
	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:						
P7.17	TBBPA (nemical specifications of flame retardants in printed circuit boards > 25 g (without com additive) , TBBPA (reactive) (See NOTE B3), Other; chemical name: , <i>FRs are used, which are not restricted of their inclusion by regulations</i>	iponents): CAS #:		\boxtimes		
	Alt. 2: Ch according	nemical specifications of flame retardants in printed circuit boards (without component g ISO 1043-4:			\square		
P7.18	concentra 1. Chemi 2. Chemi	ame retarded plastic parts > 25 g contain the following flame retardant substances/ 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. FR(40)				
P7.19	In plastic	parts > 25 g, flame retardant substances/preparations above 0,1% are used which h the following Risk phrases; and Hazard statements:					
	-		OTE B5)				
P7.20*		sumer recycled plastic material content is used in the product (See NOTE B6):	,	\square			
	a) Of to perc	t least one of the two alternatives below shall be answered; otal plastic parts' weight > 25 g, the postconsumer recycled plastic material content (or centage of total plastic by weight) is 7.9% . or weight of recycled material is g.	calculated a	_		_	

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	Imber *	P 501				Logo			
Issue date * 24.9.2019								change.	
Product	environn	nental att	ributes - Market ree	quirements (conti	nued)		Requi	rement	t met
Item				-	-		Ye	s No	n.a.
			ance requirements (c						
P7.21*		•	terial content is used i	•	,		\geq		
	a) Of t	total plastic	of the two alternatives parts' weight > 25 g, weight) is <0.002%.		ered; material content (calcula	ated as a perce	entage of		
	b) The	e weight of t	he biobased plastic ma	aterial is g.					
P7.22*			ee from mercury, i.e. le pecify: Number of lamp		um mercury content per	r lamp:	mg		
P8	Batteries	S							
P8.1*	-		mposition: Manganese	e dioxide lithium ba	ttery				
P9			on (See NOTE B8)						
P9.1	For the p	product the	following power levels	or energy consumpti	ons are reported:				
Energy m	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	
	de for ENE Operational ducts		W	W	W				\square
Standby/off mode for ENERGY STAR Operational Mode (OM) products		erational	W	W	W				
TEC value for ENERGY STAR TEC products			kWh/week	kWh/week	0.49 kWh/week				
	pical Energ	ју							
Operating	g Mode		W	W	596.9W				
Ready M	ode		W	W	78.6 W				
Sleep Mo	ode		W	W	0.5 W0				
			W	W	W				$\overline{\neg}$
			W	W	W				⊢⊢
			W	W	W				
External		oly Efficienc							
		•	ncy Level (International Efficiency Marking Protocol) *:						
Print/Scar	•		43 images per minute						
		0,	e mode: 1 minutes						
P9.2*	Informati	ion about th	e energy save function	n is provided with the	product.		\boxtimes		
P10	Emissio								
D10 4			Declared according to I ode description			alabted sourd	nowor lovel		
P10.1	Mode	IVI	ode description		atistical upper limit A-we _{WA,c} (B)	eigntea souna	power level,		
	Idle		Stand-by	*	3.2				
	Operatio		Operating mode	*	6.9				
	Other mo		See section P 15						
	Measure	ed according		ECMA-74 (only if not covered b	y 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 <u>http://www.ecma-international.org/publications/standards/Ecma-370.htm</u>

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

Model nur	nber *	P 501	Logo				
Issue date *		24.9.2019			RICO		
Product	Product environmental attributes - Market requirements (continued)			R	Requirement met		
Item		,			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	ectronic		\boxtimes		
B / a a		ent (ISO/IEC 28360) , other specify: RAL-UZ205					
P10.3	Iypical	emission rate (operation phase) is (mg/h):					
	Electrop Ink devi	bhotographic devices: Ozone <0.2 Dust <0.18 Styrene 0.056 Benzene <0.007 ices: Dust Styrene Benzene	TVOC TVOC	-			
	Note: co	ompliance with maximum emission rates in eco labels to be declared in P14.					
P11		mable materials for printing products			<u> </u>		
P11.1*		y Data Sheet (SDS) is available for the ink/toner preparation, even if not legally requ	-			<u> </u>	<u>Ц</u>
P11.2*	EN 122		ie require	ements of			
P11.3*		(duplex) printing/copying is an integrated product function.				<u> </u>	<u> </u>
P11.4*	· ·	duct is delivered to end-user with default auto-duplex enabled.			\square		
P13 P13.1* P13.2*	Product Product Product	ing and documentation i packaging material type(s): Corrugated Paper weight (kg): 2.62 i packaging material type(s): Plastic weight (kg): 0.464 i packaging material type(s): weight (kg): i packaging material type(s): weight (kg): i packaging material type(s): weight (kg): i plastic primary packaging is free from PVC.					
P13.3*		duct primary corrugated fiberboard packaging, specify the contained percentage	of minim	um post-			
	consum	her recovered fiber content: %		un poor			
P13.4*	Electror	media for user and product documentation (tick box): nic 🔀, Paper 🔀, Other 🗌					
P13.5	Ùser an	e only complete this item if paper documentation used) ad product documentation on paper media is chlorine-free: olease specify:			\boxtimes		
	Totally	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):					
	Eco-lab		category:	Printer			
P15	Eco-lab Additio	el: Criteria version: Date: Product of mal information (See NOTE B11)	alegory.				
		oduct is designed to utilize recycled plastic materials wherever available					
	Stand-l Operat	ed A-weighted sound pressure level L _{pAm} (dB) in operation position by: 23.2 (dB) ing Mode; 56.7(dB)					
	The PV	ent A (PVC) : C is restricted to use only for the packing materials. The following is Ricoh Group C e for the products:	Green Pro	curement's	standp	oint fo	or the
	Please	refer to the latest Ricoh Group Green Procurement Guideline below;					
	http://ex	tt.ricoh.co.jp/ecology/guideline/pdf/image_e_ver7.pdf					
	since w	leleted the restriction of use of PVC as steted in the above as "Until now, PVC co e concerned environmental impact after product disposal and hazardous property of a e of PVC restricted use by confirming public movement and concern surrounding PV	additives.				
	Comment B (Flame retardants in the PCB):						
	There is a same kind of requirement in the EPEAT criteria 4.1.6.2 :						
	laminate	red circuit board laminates included in the product excluding components soldere es shall contain no more than 0.1 % weight. (1000ppm) bromine and 0.1 % weight ated flame retardants (BFRs) and chlorinated flame retardants (CFRs), with the follow	ght. (1000)ppm) chĺo			

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.

. 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