



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	DICOL
e-mail address	Bergen op Zoom, Netherlands	
	emo@ricoh-europe.com	
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 *	Colour Printer						
Commercial name *	P C300W						
Model number *	P C300W						
Issue date *	12 August 2019						
Intended market *	🗌 Global 🔀 Europe 📃 Asia, Pacific & Japan 🔛 Americas 📃 Other						

This is an uncontrolled copy when in printed form. Please refer to the contact information for the latest version.

About Annex B1

Additional information

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 nu	umber *	P C300W									Logo					
Issue dat	te *	* 12 August 2019					R		0	Н						
Product	t environi	mental attributes	s - Lega	al requ	irement	ts							Re		ment	met
Item														Yes	No	n.a.
P1		us substances and										<u>,</u>				
P1.1*		do comply with the					ive. (Se	e legal i	referenc	ce and N	OIE B1)		\boxtimes		
P1.2*	Commer	do not contain Asbent: Legal reference h	has no n	naximun	n concent	tration v								\boxtimes		
P1.3*	hydrobro trichloroe	do not contain Ozo mofluorocarbons (H ethane, methyl brom ation values.	HBFC), ł	hydrochl	orofluorca	arbons	(HCFC), Halon	is, carb	ontetracl				\boxtimes		
P1.4*	terpheny	do not contain more I (PCT) in preparation	ions (see	e legal re	eference)).		. ,						\boxtimes		
P1.5*		do not contain more ntaining at least 48%									bon atoı	ms in	the	\boxtimes		
P1.6*	(see lega	h direct and prolong al reference). nt: Max limit in legal I	-							above	0,5 μg/ci	m²/we	eek	\square		
P1.7*	REACH	Article 33 informatio								or mail	contact)):		\boxtimes		
P2	Batteries	S														
P2.1*		duct contains a batt Information on prope									the disp	osal		\boxtimes		
P2.2*	symbol. Information on proper disposal is provided in user manual. (See legal reference) Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal															
P2.3*									\boxtimes							
P3	Conform	nity verification & E	Eco des	sign (Erl	P)											
P3.1*	The prod	luct is CE-marked to laration of Conformit	o show o	conforma	ance with					s (see le	gal refer	ence).	\boxtimes		
P3.2*	The prod	luct complies with th al reference).								S,				\boxtimes		
	-	I information is;	= ×		tem P15 o at (add U		ed to this	docum	nent,						\boxtimes	
P4	Consum	able materials	<u>~</u>	ranabio	41 (444 0	/···=/·										
P4.1*	If a photo	conductor (drum, b erence and NOTE B) is used	d in the pr	roduct, i	it does	not cont	tain cac	mium m	ax 0,019	% (se	е	\square		
P4.2*		er is used in the prod		does not	t contain	cadmiu	ım max	0,1% b	y weigh	t (see le	gal refer	ence).	\boxtimes		
P4.3*	are Com applicabl	/toner formulation/pr munity workplace ex le regulations and a al reference).	xposure	e limits, t	he produ	ct/pack	aging is	adequa	ately la	beled ac	cording t	0				
P5		packaging														
P5.1*	hexavale	ng and packaging on the chromium by weight	eight of th	hese tog	jether.									\boxtimes		
P5.2*	used (se	kaging materials are e legal reference).							-				. ,	\bowtie		
P5.3*	The proc Protocol Commer	duct packaging mat (see legal reference ht: Legal reference h	e).				•	Ibstanc	es as s	specified	in the	Mon	treal			
P6		nt information		1122		1- (1	(
P6.1*	Informatio	on for recyclers/treat	atment fa	acilities i	s availab	ie (see	legal re	terence	e).					\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.

Model nu	umber *	P C300W Logo			
Issue dat	te *	12 August 2019	RI	CO	
-	Environn	nental attributes - Market requirements (See General NOTE GN below) nental conscious design		rement	
Item		tory to fill in. Additional information regarding each item may be found under P14.	Yes	No	n.a.
P7	Design	nbly, recycling			
P7.1*	Parts that	have to be treated separately are easily separable			
P7.2*		aterials in covers/housing have no surface coating.		- #-	
P7.3*		arts > 100 g consist of one material or of easily separable materials.		- #-	
P7.4*		rrts > 25 g have material codes according to ISO 11469 referring ISO 1043-4.		-#-	-#-
P7.5		arts are free from metal inlays or have inlays that can be removed with commonly available to		-#-	-#-
P7.6*		e easily separable. (This requirement does not apply to safety/regulatory labels).		<u> </u>	<u> </u>
17.0	Product				
P7.7*		g can be done e.g. with processor, memory, cards or drives			
P7.8*		g can be done using commonly available tools		- #-	-#-
P7.9.		rts are available after end of production for: 7 years			-#-
P7.10		available after end of production for: 7 years			
1 7.10		and substance requirements			
P7.11*		over/housing material type (e.g. plastics, metal, aluminum):			
	Material t	ype: <i>PC + ABS</i> Material type: Material type:			
P7.12	Insulatior	materials of external electrical cables are PVC free.		\boxtimes	
P7.13	Insulation	materials of internal electrical cables are PVC free.		\boxtimes	
P7.14	weight (1 polyvinyl	plastic casing/cover parts > 25 g contain no more than 0,1% weight (1000 ppm) bromine and 000 ppm) chlorine attributable to brominated flame retardants, chlorinated flame retardant chloride or 0,3% weight (3000 ppm) bromine and 0,3% weight (3000 ppm) chlorine ir g more than 25% post-consumer recycled content.	s, and		
P7.15	Printed c	ircuit boards, PCBs (without components) are low halogen: all PCBs > 25 g as as defined in IEC 61249-2-21. (See NOTE B2)	re low	\boxtimes	
P7.16		arded plastic parts > 25 g in covers / housings are marked according ISO 1043-4:	\boxtimes		
P7.17		emical specifications of flame retardants in printed circuit boards > 25 g (without components):		
		additive) , TBBPA (reactive) (See NOTE B3), Other; chemical name: , CAS #:		\boxtimes	
		e used, which are not restricted of their inclusion by regulations			
		emical specifications of flame retardants in printed circuit boards (without components) > 25 g	A 🗌	\boxtimes	
P7.18	<u>Alt. 1:</u> F	ame retarded plastic parts > 25 g contain the following flame retardant substances/preparation concentrations above 0,1%:	ons in	\boxtimes	
	2. Chemi	cal name: , CAS #: (See NOTE B4) cal name: , CAS #: " cal name: , CAS #: "			
	<u>Alt. 2:</u>	Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4: FR	(40)	\bowtie	
P7.19	assigned	parts > 25 g, flame retardant substances/preparations above 0,1% are used which have bee the following Risk phrases; and Hazard statements:	n 🗌	\boxtimes	
D		ce(s) for these classifications is/are found at (add URL(s)): , (See NOTE B5))		
P7.20*		umer recycled plastic material content is used in the product (See NOTE B6):			
	a) Of to perc	least one of the two alternatives below shall be answered; otal plastic parts' weight > 25 g, the postconsumer recycled plastic material content (calculate entage of total plastic by weight) is< 0.1%.	ed as a		
	or 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 nu	mber *	PC	C300W			Logo				
Issue dat	e *	12 /	August 2019			RIC				
Product	environm	nental atti	ributes - Market re	quirements (co	ntinued)		Requ	irement	met	
Item							Ye	es No	n.a.	
			ance requirements (
P7.21*			terial content is used	• •	,		\geq			
	a) Of to total or	otal plastic I plastic by	of the two alternatives parts' weight > 25 g, weight) is <i>0.01</i> %. he biobased plastic m	the biobased plast	swered; ic material content (calcula	ited as a perce	entage of			
P7.22*	,	-	e from mercury, i.e.	-	m					
Γ1.22	If mercury	y is used sp	pecify: Number of lam		kimum mercury content per	lamp:	mg			
P8	Batteries									
P8.1*	•		nposition: Manganes	e dioxide lithium						
P9			on (See NOTE B8)							
P9.1	For the p	roduct the f	following power levels	s or energy consum						
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 ENEI perational I lucts		W	W	W				\square	
Standby/o ENERGY	ff mode for STAR Ope I) products		W	W	W				\boxtimes	
	e for ENER	GY STAR	kWh/week	kWh/week	0.37 kWh/week					
	pical Energ	у								
Operating	g mode		W	W	412.0 BW 450.0 Col W					
Ready mo	ode		W	W	32.8 W					
Sleep mo	de		W	W	0.66 W					
			W	W	W					
			W	W	W					
			W	W	W					
External F	ower Sunn	ly Efficienc	y Level (International	Efficiency Marking	Protocol) * :					
		-								
	Print/Scan Speed * : 20 images per minute								<u> </u>	
			e mode: 1 minutes	· · · · · ·						
P9.2*	Informatio	on about th	e energy save functio	n is provided with t	he product.		\geq			
P10	Emissio			10.0 0000 (0 110						
P10.1	Moise en Mode	mission – L Me	Declared according to ode description	150 9296 (See NC	Statistical upper limit A-we L _{WA,c} (B)	ighted sound	power level,			
	Idle	*	Stand-by		* 3.2					
	Operation		Operating Mode * Mono: 6.8, Colour: 6			6.8				
	Other mo		See section P15							
	Measured	d according	to: 🛛 ISO 7779 🗌 Other	ECMA-74 (only if not covered	d 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 <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	mber *	P C300W	,				Logo		_		-
Issue date	e *	12 Augus	t 2019					RI	C		
Product	environ	mental attribut	es - Market requ	irements (continued)			Re	quire	ment	met
Item									Yes	No	n.a.
			m printing produc								
P10.2*	Test performed according to ECMA-328 Determination of Chemical Emission Rates from Electronic										
P10.3	Typical emission rate (operation phase) is (mg/h):										
			ces: Ozone 0.19 C 1.36 BW 7.04 COL	OL Dust 1.3	COL Styrene 0.	996 COL Benzo	ene BW & Col	l limit of			
	Ink devi	ces:		Dust	Styrene	Benzene	TVOC				
	Note: co	mpliance with ma	ximum emission ra	tes in eco la	bels to be decla	red in P14.					
P11	Consur	nable materials f	or printing produc	sts							
P11.1*			S) is available for th		preparation, eve	n if not legally re	equired (see F	P4.3).	\square		
P11.2*	Paper o EN 122		onsumer recycled f	ibers can b	e used, provide	ed that it meets	s the requiren	ments of			
P11.3*			copying is an integra	ated produc	t function.				\boxtimes		
P11.4*	The pro	duct is delivered t	o end-user with def	ault auto-du	plex enabled.						
P13	Packag	ing and docume	ntation								
P13.1*											
P13.2*			ackaging is free fror						\boxtimes		
P13.3*		duct primary corr er recovered fiber	ugated fiberboard content:	packaging, %	specify the con	tained percenta	age of minimu	um post-			
P13.4*		media for user ar iic 🔀, Paper 🔀	d product documer	tation (tick I	oox):						
P13.5	Ùser an		s item if paper docu entation on paper m						\boxtimes		
	•	chlorine-free							\square		
		tal chlorine-free									
		ed chlorine-free							H		
P14	Volunta	ry programs:									
P14.1			quirements of the fo	llowing volu	intary program(s	s):					
	ENERG	Y STAR®	Criteria versior	1:	Date:	Produ	ct category:				
	Eco-lab	-	Criteria versior		Date: Date:		ct category:				
P15	Eco-lab	nal information (Criteria versior	1.	Dale.	Piodu	ct category:				
-15			signed to utilize re	oveled pla	etic matoriale u	herever availe	ble				
			d sound pressure le				<i></i>				
	Stand-b	y: 20.2 (dB)	·		in operation	DOSILION					
	Operati	ing mode: wono:	57.7(dB), Colour: 5	o.o(uB)							

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.

Comment 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 a same kind of requirement in the EPEAT criteria 4.1.6.2 : All printed circuit board laminates included in the product excluding components soldered or affixed to the printed circuit board laminates shall contain no more than 0.1 % weight. (1000ppm) bromine and 0.1 % weight. (1000ppm) chlorine attributable to brominated flame retardants (BFRs) and chlorinated flame retardants (CFRs), with the following exception:

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