



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 (Netherlands) , Prof. W.H.Keesomlaan 1, PO Box 114 1180AC Amstelveen, The Netherlands reu.compliance@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 * | Mono Printer |
| Commercial name * | P 311SE |
| Model number * | P 311SE |
| Issue date * | 16 July 2025 |
| Intended market * | <input type="checkbox"/> Global <input checked="" type="checkbox"/> Europe <input type="checkbox"/> Asia, Pacific & Japan <input type="checkbox"/> Americas <input type="checkbox"/> Other |
| Additional information | |

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

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| 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 * | P 311SE | Logo |
| Issue date * | 16 July 2025 | |

| Product environmental attributes - Legal requirements | | Requirement 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) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| P1.2* | Products do not contain Asbestos (see legal reference). Comment: Legal reference has no maximum concentration value. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| P1.3* | Products do not contain Ozone Depleting Substances: Chlorofluorocarbons (CFC), hydrobromofluorocarbons (HBFC), hydrochlorofluorocarbons (HCFC), Halons, carbontetrachloride, 1,1,1-trichloroethane, methyl bromide (see legal reference). Comment: Legal reference has no maximum concentration values. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| P1.4* | Products do not contain more than; 0,005% polychlorinated biphenyl (PCB), 0,005% polychlorinated terphenyl (PCT) in preparations (see legal reference). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| P1.6* | Parts with direct and prolonged skin contact do not release nickel in concentrations above 0,5 µg/cm ² /week (see legal reference). Comment: Max limit in legal reference when tested according to EN1811:2011-5. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P1.7* | REACH Article 33 information about substances in articles is available at (add URL or mail contact): reu.compliance@ricoh-europe.com | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P2.2* | Batteries or accumulators do not contain more than 0,0005% of mercury or 0,002% of cadmium. (See legal reference) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P2.3* | Batteries and accumulators are readily removable. (See legal reference) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P2.4* | Documentation includes the number of cycles the (secondary) battery can withstand. (See legal reference) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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) | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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): https://www.ricoh.com/products/ce_doc2/ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P3.2* | The product complies with the Eco design Requirements for Energy-Related Products, (see legal reference). Required information is: <input type="checkbox"/> given in item P15 or added to this document, <input type="checkbox"/> available at (add URL): | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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). | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 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. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| P5.2* | The packaging materials are marked with abbreviations and numbers indicating the nature of the material(s) used (see legal reference). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 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. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| P6 | Treatment information | | | |
| P6.1* | Information for recyclers/treatment facilities is available (see legal reference). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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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| Product environmental attributes - Market requirements (See General Note GN below) | | | Requirement met | | |
|--|--|-------------------------------------|-------------------------------------|--------------------------|------|
| - Environmental conscious design | | | | | |
| 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 | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| P7.2* | Plastic materials in covers/housing have no surface coating. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| P7.3* | Plastic parts > 100 g consist of one material or of easily separable materials. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| P7.4* | Plastic parts > 25 g have material codes according to ISO 11469 referring ISO 1043-4. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| P7.5 | Plastic parts are free from metal inlays or have inlays that can be removed with commonly available tools. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| P7.6* | Labels are easily separable. (This requirement does not apply to safety/regulatory labels). | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| Product lifetime | | | | | |
| P7.7* | Upgrading can be done e.g. with processor, memory, cards or drives | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| P7.8* | Upgrading can be done using commonly available tools | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| P7.9. | Spare parts are available after end of production for: 7 years | | <input type="checkbox"/> | <input type="checkbox"/> | |
| P7.10 | Service is available after end of production for: 7 years | | <input type="checkbox"/> | <input type="checkbox"/> | |
| 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. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| P7.13 | Insulation materials of internal electrical cables are PVC free. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| P7.15 | Printed circuit boards, PCBs (without components) are low halogen: all <input type="checkbox"/> PCBs > 25 g <input type="checkbox"/> are low halogen as defined in IEC 61249-2-21. (See NOTE B2) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| P7.16 | Flame retarded plastic parts > 25 g in covers / housings are marked according ISO 1043-4: Marking: FR(40) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| P7.17 | Alt. 1: Chemical specifications of flame retardants in printed circuit boards > 25 g (without components): TBBPA (additive) <input type="checkbox"/> , TBBPA (reactive) <input type="checkbox"/> (See NOTE B3), Other; chemical name: , CAS #: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> | | | | |
| | Alt. 2: Chemical specifications of flame retardants in printed circuit boards (without components) > 25 g according ISO 1043-4: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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 #: " | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| | Alt. 2: Chemical specifications of flame retardants in plastic parts > 25 g according ISO 1043-4: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

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.

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| Product environmental attributes - Market requirements (continued) | | | Requirement met | |
|--|---|-------------------------|-------------------------|---|
| Item | Yes | No | n.a. | |
| Material and substance requirements (continued) | | | | |
| P7.20* | Postconsumer recycled plastic material content is used in the product (See NOTE B6): <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | | |
| | 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 5.72% . | | | |
| | or | | | |
| | b) The weight of recycled material is 340.5 g. | | | |
| P7.21* | Biobased plastic material content is used in the product (See NOTE B7): <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | | |
| | If YES; at least one of the two alternatives below shall be answered; | | | |
| | a) Of total plastic parts' weight > 25 g, the biobased plastic material content (calculated as a percentage of total plastic by weight) is %. | | | |
| | or | | | |
| | b) The weight of the biobased plastic material is g. | | | |
| P7.22* | Light sources are free from mercury, i.e. less than 0,1 mg/lamp. If mercury is used specify: Number of lamps: and maximum mercury content per lamp: mg <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | | |
| P7.23* | If product includes an integral display, the total mercury content in the integrated display: 0 mg <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | | |
| P8 Batteries | | | | |
| P8.1* | Battery chemical composition: Lithium-ion battery (one cell battery) <input type="checkbox"/> | | | |
| P9 Energy consumption (See NOTE B8) | | | | |
| P9.1 | For the product the following power levels or energy consumptions are reported: | | | |
| Energy mode * | Power level at 100 V AC | Power level at 115 V AC | Power level at 230 V AC | |
| Operating mode | W | W | 512 W | |
| Ready mode | W | W | 63.8 W | |
| Sleep mode | kWh/week | kWh/week | 0.72 W | |
| TEC value | kWh/week | kWh/week | 0.408 kWh/week | Based on ENERGY STAR Ver 3.0 Test Method. <input type="checkbox"/> |
| | W | W | W | <input type="checkbox"/> |
| | W | W | W | <input type="checkbox"/> |
| | W | W | W | <input type="checkbox"/> |
| | W | W | W | <input type="checkbox"/> |
| | W | W | W | <input type="checkbox"/> |
| External Power Supply Efficiency Level (International Efficiency Marking Protocol) * : | | | | <input checked="" type="checkbox"/> |
| Print/Scan Speed * : 32 images per minute | | | | <input type="checkbox"/> |
| Default time to enter energy save mode: 0.5 minutes | | | | <input type="checkbox"/> |
| P9.2* | Information about the energy save function is provided with the product. | | | <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

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>.

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| Product environmental attributes - Market requirements (continued) | | | Requirement met |
|---|--|-------------------------|--|
| Item | | | Yes No n.a. |
| P10 | Emissions | | |
| Noise emission – Declared according to ISO 9296 (See NOTE B9) | | | |
| P10.1 | Mode | Mode description | Statistical upper limit A-weighted sound power level, $L_{WA,c}$ (B) |
| | Idle | * Stand-by | * 3.2 |
| | Operation | * Operating Mode | * 7 |
| | Other mode | | |
| Measured according to: <input checked="" type="checkbox"/> ISO 7779 <input type="checkbox"/> ECMA-74 <input type="checkbox"/> Other (only if not covered by ECMA-74) | | | |
| Chemical emissions from printing products (See NOTE B10) | | | |
| P10.2* | Test performed according to ECMA-328 Determination of Chemical Emission Rates from Electronic Equipment (ISO/IEC 28360) <input type="checkbox"/> , other specify: DE-UZ219 <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | |
| P10.3 | Typical emission rate (operation phase) is (mg/h): <input type="checkbox"/> Electrophotographic devices: Ozone 1.46 Dust <1.2 Styrene 0.31 Benzene <0.03 TVOC 6.6 Ink devices: Dust Styrene Benzene TVOC <input type="checkbox"/> NOTE: compliance with maximum emission rates in eco labels to be declared in P14. | | |
| P11 | Consumable materials for printing products | | |
| P11.1* | A Safety Data Sheet (SDS) is available for the ink/toner preparation, even if not legally required (see P4.3). <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | |
| P11.2* | Paper containing post-consumer recycled fibers can be used, provided that it meets the requirements of EN 12281. <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | |
| P11.3* | 2-sided (duplex) printing/copying is an integrated product function. <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | |
| P11.4* | The product is delivered to end-user with default auto-duplex enabled. <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | |
| P13 | Packaging and documentation | | |
| P13.1* | Product packaging material type(s): Corrugated Paper weight (kg): 1.826 Product packaging material type(s): EPS weight (kg): 0.295 Product packaging material type(s): EPE weight (kg): 0.037 Product packaging material type(s): LDPE weight (kg): 0.06 | | |
| P13.2* | Product plastic primary packaging is free from PVC. <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | | |
| P13.3* | For product primary corrugated fiberboard packaging, specify the contained percentage of minimum post-consumer recovered fiber content: % <input checked="" type="checkbox"/> | | |
| P13.4* | Specify media for user and product documentation (tick box): Electronic <input checked="" type="checkbox"/> , Paper <input checked="" type="checkbox"/> , Other <input type="checkbox"/> <input type="checkbox"/> | | |
| P13.5 | (Please only complete this item if paper documentation used) User and product documentation on paper media is chlorine-free: <input checked="" type="checkbox"/> <input type="checkbox"/> If Yes, please specify: Totally chlorine-free <input checked="" type="checkbox"/> Elemental chlorine-free <input type="checkbox"/> Processed chlorine-free <input type="checkbox"/> | | |
| P14 | Voluntary programs: | | |
| P14.1 | The product meets the requirements of the following voluntary program(s): ENERGY STAR® Criteria version: See P9.1 Date: Product category: Eco-label: BAM Criteria version: DE-UZ219 Date: Product category: Eco-label: Criteria version: Date: Product category: | | |

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

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

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| Product environmental attributes - Market requirements (concluded) | | Requirement met |
|--|--|-----------------|
| P15 | Additional information (See NOTE B11) | |
| | <i>Sound pressure level at the operator position [LpA:dB(A)]</i> | |
| | <i>Stand-by: 20.6</i> | |
| | <i>Operating Mode : 60.9</i> | |
| | <i>Heat Emission: 352.6656 [kcal/h]</i> | |
| | | |

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 Regulation) | P4.3, P7.19 |
| Directive 2004/12/EC (Packaging Directive) | P5.1 |
| Decision 97/129/EC (Secondary packaging legislation) | P5.2 |

| | |
|---|------|
| <p>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.</p> | P6.1 |
|---|------|