

Circo® PP 20 V0-i-5576A

Post-consumer recycled (PCR) polypropylene with improved impact and flameretardant properties (V0 3mm and HB 1,5 mm)

Product Description

Compound is made from recycled polypropylene with improved impact and flame-retardant properties for injection moulded applications. The compound is supplied in pellet form. The grade is available in natural grey colour or with the colour master batch of your choice.

Sustainability

Compound contains post-consumer recycled (PCR) material which is separately collected plastic packaging from households in accordance with EN ISO 14021:2016. The quality and traceability of recycled content is certified by RecyClass.

The material is recyclable. For further information, please contact NG Nordic representative.

Typical Properties

	Nominal Value	Units	Test Method
Mechanical			
Tensile Modulus	1400	MPa	ISO 527
Tensile Strength at Yield	17	MPa	ISO 527
Tensile Elongation at Break	24	%	ISO 527
Flexural Modulus	1370	MPa	ISO 178
Charpy Impact Strength (A notched) +23°C	3,3	kJ/m2	ISO 179
Charpy Impact Strength (Unnotched) +23°C	26	kJ/m2	ISO 179
Physical			
Density	1000	kg/m3	ISO 1183
Post-consumer recycled (PCR) content	>55	%	Weight
Additive	Impact modifier Flame retardant		
Melt flow rate (230°/2,16kg)	20	g/10min	ISO 1133
Colour	Grey, colour MB optional		
Mold shrinkage	1,5	%	Internal
Flammability			
Flame Rating 1,5 mm 3,0 mm	HB V0		UL 94
Glow Wire Flammability Index 1,5 mm 2,0 mm	xxx	°C	IEC 6695-2-12
Glow Wire Ignition Temperature 1,5 mm 3,0 mm	XXX	°C	IEC 6695-2-13

These are typical property values not to be construed as specification limits.





Processing: Injection moulding

No pre-drying is needed when stored properly.

The injection moulding cylinder temperature and melt temperature range should not exceed 240 °C. The optimum temperature profile should be determined by the specific needs of the application, and hopper section is typically 20 °C to 30 °C lower than the nozzle area. Mould temperatures should also be matched to the application, typically between 10 °C and 65 °C.

Injection pressure depends on the application. Injection speed profile should be matched to the design, relatively fast injection is preferred. Holding pressure and cushion should be tested with the design; the level of typical packing pressure is about 75% of maximum injection pressure. The pressure should be held until the gate is frozen.

Plasticization speed can be quite fast, and back pressure should be matched per case. During the production pause, lower the melt temperatures; after reheating, purge sufficiently when starting the operation again.

Features

- Flame-retardant
- Zero halogens used
- Impact modified
- High flow

Applications

- Consumer goods
- Construction materials
- **Electrical and Electronics**

Further Information

Certificates

Quality Management System **Environmental Management System** Occupational Health and Safety System ISO 45001:2018 No. 5051-11 RecyClass Recycling Process

ISO 9001:2015 No. 1111-16 ISO 14001:2015 No. 1110-17 EN 15343



Health and Safety

Material is based on post-consumer recycled plastic. Please verify that use of PCR based materials is permitted in your products.

For further information about safety in handling and processing please refer to the Safety Data Sheet.

Storage

The granulate is packed in big bags or bulk containers.

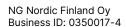
Material should be stored in dry conditions at normal temperatures and protected from UV-light. If it is stored under certain conditions, i.e. if there are large fluctuations in ambient temperature and the atmospheric humidity is high, moisture may condense inside the packaging. Under these circumstances, it is recommended to dry the resin before use.

Disclaimer

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

The suitability of the material for planned use should be always verified by the customer. NG Nordic is reporting these values and guidelines based on its own knowledge; updates may occur without notice. Please verify data accuracy with NG Nordic.

Finland









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Company Information

For further information, please visit: www.circoplastics.com

