

Technical Data Sheet

PCR PP Copolymer Regranulate Natural

Product Code: 000616



Description

PCR PP 000616 is a 100% PCR (post-consumer recycled) polypropylene material with a good melt flow rate and good tensile and flexural strength, designed for injection molding applications.

PCR PP 000616 is made from 100% PCR products.

Applications

Drinking water caps	Packaging components
Toys	Others

Compliance

REACH (240 SVHC)	FDA
RoHS Directive (EU) 2011/65	GRS

Physical Properties	Value	Units	Test Method
Density	0.9-0.91	g/cm ³	ISO 1183
MFI (230°C/ 2,16kg)	7-10	g/10 min	ISO 1133
Tensile Strength	25.4	MPa	ISO 527-2
Elongation at Break	700	%	ISO 527-2
Flexural Strength	28.5	MPa	ISO 178
Flexural Modulus	930	MPa	ISO 178
Ash Content	<0.1	%	ISO 3451-1
Melt Point	160	°C	ISO 11357
Molding Shrinkage	1,6	%	Internal
Charpy Impact Strength, unnotched (23°C)	96.6	KJ/m ²	ISO 180

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Charpy Impact Strength, notched (23°C)	6.4	KJ/m ²	ISO 180
Heat Deflection Temperature (0,45MPa)	80	°C	ISO 75-2

Processing Conditions

PCR PP 000616 is easy to process with standard injection moulding machines.

Following parameters should be used as guidelines:

Melt temperature:

180 -210 °C

PCR PP 000616 needs to be dried at 120°C for 2h before use.

Storage

PCR PP 000616 should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, which results in odor generation and color changes and can have negative effects on the physical properties of this product.

More information on storage can be found in Material Safety Data Sheet (MSDS) for this product.

Recycling

The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

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