

Technical Data Sheet

PCR PP Regranulate White Color

Product Code: 000611

Description

PCR PP 000611 is a 100% PCR (post-consumer recycled) polypropylene material with a good melt flow rate and good impact resistance, designed for injection molding process.

PCR PP 000611 is made from the discarded outer buckets of the wash machines. These products are manufactured through high quality recycling process, consist of hot washing, melt filtration, pelletization and degassing etc., comply with GRS (Global Recycled Standard).

Applications	
Non-food contact containers	Packaging components
Household electric appliances	Industrial products
Other injection use	

Special Features	
Lower impurity content control	Stable MFR suitable for injection molding

Compliance	
RoHS Directive (EU) 2011/65	REACH (224 SVHC)
Heavy Metal Compliance	

Physical Properties	Value	Units	Test Method
Density	0,93	g/cm ³	ISO 1183
MFI (230°C/ 2,16kg)	58	g/10 min	ISO 1133
Tensile Stress (50mm/min)	22	MPa	ISO 527-2
Tensile Modulus (50mm/min)	1201	MPa	ISO 527-2
Flexural Modulus	1150	MPa	ISO 178

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Flexural Strength	31	MPa	ISO 178
Ash Content	3,5	%	ISO 3451-1
Melt Point	160	°C	ISO 11357
Molding Shrinkage	1,5	%	Internal
Charpy Impact Strength, notched (23°C)	5,0	KJ/m ²	ISO 179
Heat Deflection Temperature (0,45MPa)	89	°C	ISO 75-2
Heavy Metals (Rohs)	Cd, Hg, Pb, Cr	-	

Processing Conditions

PCR PP 000611 is easy to process with standard injection moulding machines.

Following parameters should be used as guidelines:

Melt temperature:	190 -220 °C
Holding pressure:	200 – 500 bar
Mould pressure:	60-100 MPa
Mould temperature:	30-50 °C
Molding time:	30-60 s

Shrinkage 1 - 2%, depending on wall thickness and moulding parameters.

Storage

PCR PP 000611 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.

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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