

Technical Data Sheet

PCR PP Homo Regranulate Natural

Product Code: 000624

Recycled Content: 100 % PCR (post-consumer)

Product Description:

000624 PCR PP Homo Regranulate Natural comes from post-consumer recycled materials in Asia and is suitable for injection moulding applications. The material is GRS certified. The material is produced by a recycling process approved by the FDA.



Physical Property	Value	Units	Test Standard	Test Condition
Density	0.907	g/cm ³	DIN ISO 1183	
MFR	46	g/10 min.	DIN ISO 1133	230°C, 2.16 kg
Tensile Stress at Yield	34	MPa	DIN ISO 527	50mm/min.
Tensile Modulus	1480	MPa	DIN ISO 527	50mm/min.
Elongation at Break	35	%	DIN ISO 527	
Flexural Strength	44	MPa	DIN ISO 178	
Flexural Modulus	1520	MPa	DIN ISO 178	
Ash Content	0.2	%	DIN ISO 3451	
Melt Point	160	°C	DIN ISO 11357	
Molding Shrinkage	1.6	%	Internal	
Charpy Impact Strength, notched	3	kJ/m ²	DIN ISO 180	23°C
Charpy Impact Strength, unnotched	61	kJ/m ²	DIN ISO 180	23°C
Heat Deflection Temperature	98	°C	DIN ISO 75	0.45 MPa

Typical Processing Conditions

Processing Parameter	Condition	Optimum	Range	Unit
Melt Temperature			180 - 220	°C
Holding Pressure			200 - 500	Bar
Mould Pressure			60 - 100	MPa
Mould Temperature			30 - 50	°C
Molding Time			30 - 60	s
Shrinkage (depending on wall thickness and moulding parameters)			1 - 2	%

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