

Technical Data Sheet

P50CN-H40R-4157

Homopolymer Polypropylene Filled with Calcium Carbonate

Nirumand Polymer



Nirumand Polymer Co.
Filled & Reinforced Engineering Plastics

Product Description

P50CN-H40R-4157 is recycled homopolymer polypropylene filled with 50% calcium carbonate offering good stiffness, dimensional stability, good thermal and chemical resistance. This compound is used in different applications. This grade is designed to be processed in injection molding processes.

General Properties

Material Status • Commercial: Active

Forms • Pellets

Processing Method • Injection molding

Color • Natural

Physical Properties	Value	Unit	Test Method
Density	1.35	gr/cm ³	ISO 1183
Melt Mass-flow Rate (MFR) (230°C/2.16 kg)	8	gr/10 min	ASTM D1238

Mechanical Properties	Value	Unit	Test Method
Tensile Strength@yield	18	MPa	ISO 527
Tensile Strength@Break	14	MPa	ISO 527
Elongation@Break	25	%	ISO 527
Elastic Modulus	MPa	ISO 527
Flexural Modulus	1800	MPa	ASTM D790

Impact	Value	Unit	Test Method
Notched Izod Impact (23°C)	3.5	kJ/m ²	ISO 180
Notched Charpy Impact (23°C)	kJ/m ²	ISO 179

Hardness	Value	Unit	Test Method
Durometer Hardness	68	Shore D	ASTM D2240

◆ Values shown are average & are not to be considered as product specifications.

* This value can be varied in the range of ±15%.

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