

Technical Data Sheet

P50GB-C40R

Homopolymer Polypropylene Reinforced with Glass Fiber

Nirumand Polymer



Nirumand Polymer Co.
Filled & Reinforced Engineering Plastics

Product Description

P50GB-C40R0 is copolymer polypropylene reinforced with 50% glass fiber. It provides good balance of toughness and stiffness, surface hardness, dimensional stability, good thermal and chemical resistance. This compound is used in automotive applications, home appliance industry, electrical goods, and other utility products. This grade is designed to be processed in conventional injection molding process.

General Properties

Material Status	•Commercial: Active
Forms	•Pellets
Processing Method	•Injection molding
Color	•Black

Physical Properties	Value	Unit	Test Method
Density	1.35	gr/cm ³	ISO 1183
Melt Mass-flow Rate (MFR) (230°C/2.16 kg)	gr/10 min	ASTM D1238
Shrinkage	< 0.1	%	ASTM D955

Mechanical Properties	Value	Unit	Test Method
Tensile Strength@Break	67	MPa	ISO 527
Elongation @ Break	6	%	ISO 527
Flexural Strength	105	MPa	ASTM D790
Flexural Modulus	6400	MPa	ASTM D790

Impact	Value	Unit	Test Method
Notched Izod Impact (23°C)	11	kJ/m ²	ISO 180
Notched charpy Impact (23°C)	kJ/m ²	ISO 179

Hardness	Value	Unit	Test Method
Durometer Hardness	72	Shore D	ASTM D2240

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

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