

Technical Data sheet

P20GN-C40

Copolymer Polypropylene Reinforced with Glass Fiber

Nirumand Polymer



Nirumand Polymer Co.
Filled & Reinforced Engineering Plastics

Product Description

P20GN-C40 is copolymer polypropylene reinforced with 20% glass fiber. It provides high mechanical properties, stiffness, surface hardness, better dimensional stability, good heat and chemical resistance. This compound is used in home appliance industry, automotive applications, electrical goods, housewares and other utility products. This grade is designed to be processed in conventional injection molding techniques.

General Properties

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

Physical Properties	Value	Unit	Test Method
Density	1.04	gr/cm ³	ISO 1183
Melt Mass-flow Rate (MFR) (230°C/2.16 kg)	...	gr/10 min	ASTM D1238
Shrinkage	< 0.1	%	Internal
Mechanical Properties	Value	Unit	Test Method
Tensile Strength@Yield	60	Mpa	ISO 527
Elongation@Break	5	%	ISO 527
Flexural Modulus	3500	Mpa	ASTM D790
Impact	Value	Unit	Test Method
Notched Izod Impact (23°C)	> 12	kJ/m ²	ISO 180
Notched charpy Impact (23°C)	kJ/m ²	ISO 179
Hardness	Value	Unit	Test Method
Durometer Hardness	70	Shore D	ASTM D2240

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

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