

Technical Data sheet

P20GN-H40

Homopolymer Polypropylene Reinforced with Glass Fiber

Nirumand Polymer



Nirumand Polymer Co.
Filled & Reinforced Engineering Plastics

Product Description

P20GN-H40 is homoopolymer 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	65	Mpa	ISO 527
Elongation@Break	5	%	ISO 527
Flexural Modulus	3700	Mpa	ASTM D790

Impact	Value	Unit	Test Method
Notched Izod Impact (23°C)	10	kJ/m ²	ISO 180
Notched charpy Impact (23°C)	kJ/m ²	ISO 179

Hardness	Value	Unit	Test Method
Durometer Hardness	75	Shore D	ASTM D2240

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

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