

## Technical Data Sheet

# P40GN-H40

Homopolymer Polypropylene Reinforced with Glass Fiber

## Nirumand Polymer



Nirumand Polymer Co.  
Filled & Reinforced Engineering Plastics

### Product Description

P40GN-H40 is virgin homopolymer polypropylene reinforced with 40% glass fiber. It provides high mechanical properties, stiffness, surface hardness, better dimensional stability, good thermal 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	1.25	gr/cm <sup>3</sup>	ISO 1183
Melt Mass-flow Rate (MFR) (230°C/2.16 kg)	4	gr/10 min	ASTM D1238
Shrinkage	< 0.1	%	ASTM D955

Mechanical Properties	Value	Unit	Test Method
Tensile Strength@Break	95	MPa	ISO 527
Elongation @ Break	5	%	ISO 527
Flexural Strength	140	MPa	ASTM D790
Flexural Modulus	6500	MPa	ASTM D790

Impact	Value	Unit	Test Method
Notched Izod Impact (23°C)	9	kJ/m <sup>2</sup>	ISO 180
Notched charpy Impact (23°C)	.....	kJ/m <sup>2</sup>	ISO 179

Hardness	Value	Unit	Test Method
Durometer Hardness	80	Shore D	ASTM D2240

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

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