

Technical Data sheet



P20TN-H40

Homopolymer Polypropylene Filled with Talcum Powder

Nirumand Polymer

Nirumand Polymer Co.
Filled & Reinforced Engineering Plastics

Product Description

P20TN-H40 is homopolymer polypropylene filled with 20% Talc powder offering better mechanical properties, dimensional stability, stiffness, good thermal and chemical resistance. This compound is used in automotive applications, appliance industry, housewares 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	•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)	7	gr/10 min	ASTM D1238
Shrinkage	1.3-1.4	%	Internal

Mechanical Properties	Value	Unit	Test Method
Tensile Strength@yield	28	MPa	ISO 527
Tensile Strength@Break	24	MPa	ISO 527
Elongation @ Break	≥15	%	ISO 527
Flexural Modulus	2000	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.

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