

Technical Data Sheet



P40TN-H48

Homopolymer Polypropylene Filled with Talcum Powder

Nirumand Polymer

Nirumand Polymer Co.
Filled & Reinforced Engineering Plastics

Product Description

P40TN-H48 is homopolymer polypropylene filled with 40% talc offering excellent mechanical properties, dimensional stability, stiffness, good thermal and chemical resistance. This compound is used in automotive applications, 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	1.27	gr/cm ³	ISO 1183
Melt Mass-flow Rate (MFR) (230°C/2.16 kg)	8±2	gr/10 min	ASTM D1238
Shrinkage	%	ASTM D955

Mechanical Properties	Value	Unit	Test Method
Tensile Strength@yield	≥ 23	MPa	ISO 527
Tensile Strength@Break	≥ 20	MPa	ISO 527
Elongation@Break	≥ 4	%	ISO 527
Flexural Modulus	≥ 2500	MPa	ASTM D790

Impact	Value	Unit	Test Method
Notched Izod Impact (23°C)	≥ 2.5	kJ/m ²	ISO 180
Notched charpy Impact (23°C)	kJ/m ²	ISO 179

Hardness	Value	Unit	Test Method
Durometer Hardness (1 Sec)	≥ 70	Shore D	ASTM D2240

Thermal Properties	Value	Unit	Test Method
Heat Deflection Temperature, 0.45 MPa	110	°C	ISO 75

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

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