

Technical Data Sheet

P40TC-H40-2031

Polypropylene Filled with Mineral Powder

Nirumand Polymer



Nirumand Polymer Co.
Filled & Reinforced Engineering Plastics

Product Description

P40TC-H40-2031 is polypropylene filled with 40% mineral powder offering good balance of mechanical properties and toughness, dimensional stability, medium flow, good thermal and chemical resistance. This compound is used in automotive applications especially light housing 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	•Gray

Physical Properties	Value	Unit	Test Method
Density	1.25	gr/cm ³	ISO 1183
Melt Mass-flow Rate (MFR) (230°C/2.16 kg)	10	gr/10 min	ASTM D1238
Shrinkage	0.8-1.1	%	ASTM D955

Mechanical Properties	Value	Unit	Test Method
Tensile Strength@yield	≥ 16	MPa	ISO 527
Tensile Strength@Break	15	MPa	ISO 527
Elongation@Break	≥ 7	%	ISO 527
Elastic Modulus	MPa	ISO 527
Flexural Modulus	1900	MPa	ASTM D790

Impact	Value	Unit	Test Method
Notched Izod Impact (23°C)	4	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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