

Technical Data Sheet



P20TB-H40-4012

Homopolymer Polypropylene Filled with Talcum Powder

Nirumand Polymer

Nirumand Polymer Co.
Filled & Reinforced Engineering Plastics

Product Description

P20TB-H40-4012 is homopolymer polypropylene filled with 20% talc offering outstanding 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	•Black

Physical Properties	Value	Unit	Test Method
Density	1.04	gr/cm ³	ISO 1183
Melt Mass-flow Rate (MFR) (230°C/2.16 kg)	≥ 7.5	gr/10 min	ASTM D1238
Shrinkage	...	%	Internal
Mechanical Properties	Value	Unit	Test Method
Tensile Strength@yield	20	MPa	ISO 527
Tensile Strength@Break	...	MPa	ISO 527
Elongation@Break	5	%	ISO 527
Flexural Modulus	1900	MPa	ASTM D790
Impact	Value	Unit	Test Method
Notched Izod Impact (23°C)	3	kJ/m ²	ISO 180
Notched charpy Impact (23°C)	kJ/m ²	ISO 179
Thermal	Value	Unit	Test Method
Heat Deflection Temperature under Load (HDT)	≥ 110	0.45 MPA	ISO 75
Vicat Softening Point	≥ 70	(50N/ 120°C/hr)	ASTM D1525
OIT	≥ 30	min	ISO 6-11357

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

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