

Technical Data sheet

P20TC-H40R-3099

Homopolymer Polypropylene Filled with Talcum Powder

Nirumand Polymer



Nirumand Polymer Co.
Filled & Reinforced Engineering Plastics

Product Description

P20TC-H40R-3099 is homopolymer polypropylene filled with 20% Talc powder by 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 technique.

General Properties

Material Status	•Commercial: Active
Forms	•Pellets
Processing Method	•Injection molding
Color	•Gray

Physical Properties	Value	Unit	Test Method
Density	1.04	gr/cm ³	ISO 1183
Melt Mass-flow Rate (MFR) (230°C/2.16 kg)	9	gr/10 min	ASTM D1238
Shrinkage	...	%	ASTM D955

Mechanical Properties	Value	Unit	Test Method
Tensile Strength@yield	27	Mpa	ISO 527
Tensile Strength@Break	23	Mpa	ISO 527
Elongation @ Break	24	%	ISO 527
Elastic Modulus	Mpa	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

Hardness	Value	Unit	Test Method
Durometer Hardness	66	Shore D	ASTM D2240

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

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