

Technical Data Sheet



P20MC-C46

Polypropylene Filled With Mineral Powder

Nirumand Polymer

Nirumand Polymer Co.
Filled & Reinforced Engineering Plastics

Product Description

P20MC-C46 is impact modified copolymer polypropylene filled with 20% mineral powder offering excellent impact resistance, good stiffness, scratch resistance, UV resistance, dimensional stability, good thermal and chemical resistance. This compound is used in automotive interior parts 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	1.05	gr/cm ³	ISO 1183
Melt Mass-flow Rate (MFR) (230°C/2.16 kg)	8	gr/10 min	ASTM D1238
Shrinkage	0.9-1.2	%	ASTM D955

Mechanical Properties	Value	Unit	Test Method
Tensile Strength@yield	≥ 17	MPa	ISO 527
Tensile Strength @ Break	≥ 14	MPa	ISO 527
Elongation@Break	≥ 100	%	ISO 527
Flexural Modulus	1200	MPa	ASTM D790

Impact	Value	Unit	Test Method
Notched Izod Impact (23°C)	≥ 25	kJ/m ²	ISO 180
Notched Izod Impact (-20°C)	kJ/m ²	ISO 180

Hardness	Value	Unit	Test Method
Durometer Hardness	57	Shore D	ASTM D2240

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

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