

Technical Data Sheet



P-C50R-3-4292

Nirumand Polymer

Nirumand Polymer Co.
Filled & Reinforced Engineering Plastics

Product Description

P-C50R-3 4292 is copolymer polypropylene offering a combination of good mechanical properties, impact resistance and toughness. This compound is used in home appliance industries, 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

Color •Black

Physical Properties	Value	Unit	Test Method
Ash Content (750°C/1 hr)	≤ 1	%	ISO 3451
Density	0.94	gr/cm ³	ISO 1183
Melt Mass-flow Rate (MFR) (230°C/2.16 kg)	10	gr/10 min	ASTM D1238
Shrinkage	1.2-1.6	%	ASTM D955

Mechanical Properties	Value	Unit	Test Method
Tensile Strength @ Yield	≥ 23	MPa	ISO 527
Tensile Strength @ Break	≥ 16	MPa	ISO 527
Elongation @ Break	≥ 55	%	ISO 527
Elastic Modulus	MPa	ISO 527
Flexural Modulus	900	MPa	ASTM D790

Impact	Value	Unit	Test Method
Notched Izod Impact (23°C)	13	kJ/m ²	ISO 180
Notched Izod Impact (-20°C)	kJ/m ²	ISO 180

Hardness	Value	Unit	Test Method
Durometer Hardness	Shore D	ASTM D2240

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

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