

Technical Data Sheet

P-C10-1

Copolymer Polypropylene

Nirumand Polymer



Nirumand Polymer Co.
Filled & Reinforced Engineering Plastics

Product Description

P-C10-1 is copolymer polypropylene offer an excellent impact resistance, good mechanical properties, high thermal and crazing resistance. This grade is designed to produce products with superior toughness even at low temperature. This grade is widely used for pipe extrusion and extrusion blow molding applications and also containers and other utility products.

General Properties

Material Status	•Commercial: Active
Forms	•Pellets
Processing Method	•Extrusion, Blow molding
Color	•Natural

Physical Properties	Value	Unit	Test Method
Density	0.9	gr/cm ³	ISO 1183
Melt Mass-flow Rate (MFR) (230°C/2.16 kg)	0.4	gr/10 min	ASTM D1238
Shrinkage	1.6	%	ASTM D955

Mechanical Properties	Value	Unit	Test Method
Tensile Strength@yield	25	MPa	ISO 527
Tensile Strength@Break	≥ 20	MPa	ISO 527
Elongation@Break	≥ 100	%	ISO 527
Elastic Modulus	MPa	ISO 527
Flexural Modulus	900	MPa	ASTM D790

Impact	Value	Unit	Test Method
Notched Izod Impact (23°C)	NB	kJ/m ²	ISO 180
Notched charpy Impact (23°C)	kJ/m ²	ISO 179

Hardness	Value	Unit	Test Method
Durometer Hardness	63	Shore D	ASTM D2240

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

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