

Technical Data Sheet

PE-Pipe Grade-SOFT

Polyethylene Pipe Grade

Nirumand Polymer



Nirumand Polymer Co.
Filled & Reinforced Engineering Plastics

Product Description

PE-Pipe Grade-SOFT is a pipe grade polyethylene compound filled with carbon black by excellent dispersion through the polyethylene matrix. This compound has outstanding properties such as good strength in hydrostatic pressure and other mechanical and physical properties. This grade has been designed to be used in pipe extrusion process for irrigation and swage water piping and other pipe applications.

General Properties

Material Status • Commercial: Active

Forms • Pellets

Processing Method • Extrusion

Color • Black

Physical Properties	Value	Unit	Test Method
Density	0.93	gr/cm ³	ISO 1183
Melt Mass-flow Rate (MFR) (190°C/2.16 kg)	0.4	gr/10 min	ASTM D1238
Carbon Black content	2.25	%	ASTM D1603
Carbon Black dispersion	< 3	ISIRI 7175-06
O.I.T (200 °C)	> 20	min	ASTM D3895
Mechanical Properties	Value	Unit	Test Method
Tensile Strength@Break	17	Mpa	ISO 527
Elongation@Break	> 150	%	ISO 527
Flexural Modulus	270	Mpa	ASTM D790
Impact	Value	Unit	Test Method
Notched Izod Impact (23°C)	N.B	kJ/m ²	ISO 180
Notched charpy Impact (23°C)	kJ/m ²	ISO 179
Hardness	Value	Unit	Test Method
Durometer Hardness	51	Shore D	ASTM D2240

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

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