

NOVA Chemicals Sclair® 51-35BP HDPE Extrusion Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Extruded

Material Notes:

Features: Medium molecular weight, excellent ESCR, excellent toughness, good processability, good chemical resistance. Applications: Extrusion on to metal pipes to produce a corrosion resistant coating for buried pipe systems. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Sclair-51-35BP-HDPE-Extrusion-Resin.php

Physical Properties	Metric	English	Comments
Density	0.942 g/cc	0.0340 lb/in ³	ASTM D792
Environmental Stress Crack Resistance	1000 hour	1000 hour	
Melt Flow	0.38 g/10 min @Load 2.16 kg, Temperature 190 °C	0.38 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	ASTM D2240
Tensile Strength, Ultimate	24.0 MPa	3480 psi	ASTM D638
Tensile Strength, Yield	20.0 MPa	2900 psi	ASTM D638
Elongation at Break	800 %	800 %	ASTM D638
Flexural Modulus	0.580 GPa	84.1 ksi	ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	129 °C	264 °F	ASTM D3417
Vicat Softening Point	122 °C	252 °F	ASTM D1525
Brittleness Temperature	<= -75.0 °C	<= -103 °F	ASTM D696

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ASTM D257
Dielectric Constant	2.34	2.34	ASTM 1531
Dissipation Factor	0.00050	0.00050	ASTM 1531

Processing Properties	Metric	English	Comments
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Processing Properties

Metric 220 - 250 °C

English 428 - 482 °F

Comments

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