

NOVA Chemicals Novapol® PP-0118-F LLDPE Extrusion Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE), Extrusion Grade

Material Notes:

Excellent ESCR, Excellent toughness, High strength, High flexibility
 Applications: Pipes for pressure and non-pressure service from 12 mm to 100 mm, Potable water pipe and tubing, Underground sprinkler systems, Irrigation pipe
 Additives: Antioxidants and processing stabilizers
 Pipe properties: 1 in nominal diameter laboratory pipe SDR 13.5. Long-Term Hydrostatic Strength, Nominal: 5.5 MPa, as per ASTM D746. Compressed Ring ESCR, F50: 2500 hours minimum as per ASTM D1248.
 Information provided by NOVA Chemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-PP-0118-F-LLDPE-Extrusion-Resin.php

Physical Properties	Metric	English	Comments
Density	0.918 g/cc	0.0332 lb/in ³	ASTM D792
Environmental Stress Crack Resistance	>= 2500 hour	>= 2500 hour	F₀; Condition C, 100% Igepal; ASTM D1693
Melt Flow	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	58	58	ASTM D2240
Tensile Strength, Yield	10.0 MPa	1450 psi	Extension rate 2 in/min; ASTM D638
Elongation at Break	900 %	900 %	Extension rate 2 in/min; ASTM D638
Flexural Modulus	0.400 GPa	58.0 ksi	2% Strain; ASTM D3350
Izod Impact, Notched	6.80 J/cm	12.7 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	140 µm/m-°C @Temperature 20.0 °C	77.8 µin/in-°F @Temperature 68.0 °F	ASTM D696
Maximum Service Temperature, Air	>= 220 °C	>= 428 °F	ASTM D3350
Vicat Softening Point	104 °C	219 °F	ASTM D1525
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

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