

NOVA Chemicals Novapol® HD-2007-H HDPE Extrusion Resin

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

Material Notes:

Features: Excellent ESCR and toughness, high strength, excellent processability, very high melt strength. Applications: pipe, water pipe, fuel gas pipe, re-lining pipe, steel pipe coating. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-HD-2007-H-HDPE-Extrusion-Resin.php

Physical Properties	Metric	English	Comments
Density	0.945 g/cc	0.0341 lb/in ³	ASTM D792
Environmental Stress Crack Resistance	>= 5000 hour	>= 5000 hour	F20, Condition C, ASTM D1693, 100% Igepal
Melt Flow	8.5 g/10 min @Load 2.16 kg, Temperature 190 °C	8.5 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	60	60	ASTM D2240
Tensile Strength, Yield	22.5 MPa	3260 psi	ASTM D638
Elongation at Break	850 %	850 %	ASTM D638
Flexural Modulus	0.850 GPa	123 ksi	Secant; ASTM D3350
Izod Impact, Notched	3.70 J/cm	6.93 ft-lb/in	Notched/Unnotched not specified; 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
Melting Point	128 °C	262 °F	ASTM D3417
Vicat Softening Point	124 °C	255 °F	ASTM D1525
Brittleness Temperature	<= -100 °C	<= -148 °F	ASTM D696
Decomposition Temperature	260 °C	500 °F	Thermal Stability; ASTM D3350

Processing Properties	Metric	English	Comments
Melt Temperature	195 - 225 °C	383 - 437 °F	

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