

NOVA Chemicals Novapol® HB-W952-A HDPE Extrusion Resin

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

Material Notes:

Molded Plaque Properties. Features: High molecular weight, excellent ESCR, impact strength, high rigidity. Applications: large-part blow-molding, trash cans, drums, jerry cans, fuel tanks. Data provided by the manufacturer.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-HB-W952-A-HDPE-Extrusion-Resin.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	ASTM D792
Environmental Stress Crack Resistance	>= 1000 hour	>= 1000 hour	F50, Condition B, ASTM D1693, 100% Igepal AND Condition A, 20% Igepal
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 190 °C	10 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	25.0 MPa	3630 psi	ASTM D638
Elongation at Break	820 %	820 %	ASTM D638
Flexural Modulus	1.28 GPa	186 ksi	ASTM D790
Izod Impact, Notched	3.90 J/cm	7.31 ft-lb/in	Notched/Unnotched not specified; ASTM D256
Tensile Impact Strength	320 kJ/m ²	152 ft-lb/in ²	ASTM D1822

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -100 °C	<= -148 °F	ASTM D696

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 220 °C	356 - 428 °F	

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