

NOVA Chemicals Novapol® HE-Y449-AC HDPE Extrusion Resin

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

Material Notes:

Medium molecular weight HDPE, Good toughness, Good chemical resistance, Good processability
 Applications: Corrugated tubing, Conduit
 Additives: Antioxidants
 Information provided by NOVA Chemicals.

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-HE-Y449-AC-HDPE-Extrusion-Resin.php

Physical Properties	Metric	English	Comments
Density	0.946 g/cc	0.0342 lb/in ³	ASTM D792
ESCR 100% Igepal®	>= 1000 hour @Temperature 50.0 °C	>= 1000 hour @Temperature 122 °F	F _{>50</sub>; Condition B; ASTM D1693}
Oxidative Induction Time (OIT)	10 min	10 min	Condition 220°C in oxygen gas environment; ASTM D3895
Melt Flow	0.40 g/10 min @Load 2.16 kg, Temperature 190 °C	0.40 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61	61	ASTM D2240
Tensile Strength, Yield	24.0 MPa	3480 psi	Extension rate 2 in/min; ASTM D638
Elongation at Break	650 %	650 %	Extension rate 2 in/min; ASTM D638
Flexural Modulus	1.14 GPa	165 ksi	Tangent; ASTM D790
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	130 °C	266 °F	ASTM D3417
Vicat Softening Point	124 °C	255 °F	ASTM D1525
Brittleness Temperature	<= -100 °C	<= -148 °F	ASTM D746

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