

NOVA Chemicals Novapol® HE-W959-A HDPE Extrusion/Blow Molding Resin

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

Material Notes:

HE-W959-A complies with the U.S. FDA specifications for olefin polymers and may be used in the U.S. as an article or component of an article intended for use in contact with food. It is also biologically and chemically inert. This resin can be processed on most commercial extruders. Features: High molecular weight, Very high rigidity, Excellent impact strength, Exceptional whiteness for non-coloured parts Additives: Process and storage stabilizer Applications: Sheet Extrusion, Thermoforming, Blow Molding

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-HE-W959-A-HDPE-ExtrusionBlow-Molding-Resin.php

Physical Properties	Metric	English	Comments
Density	0.959 g/cc	0.0346 lb/in ³	ASTM D 792
ESCR 100% Igepal®	45 hour	45 hour	F50, Condition A; ASTM D 1693
High Load Melt Index	11 g/10 min @Load 21.6 kg, Temperature 190 °C	11 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	ASTM D 2240
Tensile Strength, Yield	30.0 MPa	4350 psi	ASTM D 638
Elongation at Break	1100 %	1100 %	ASTM D 638
Flexural Modulus	1.70 GPa	247 ksi	Tangent; ASTM D 790
Izod Impact, Unnotched	6.80 J/cm @Thickness 3.20 mm	12.7 ft-lb/in @Thickness 0.126 in	ASTM D 256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	84.0 °C	183 °F	ASTM D 648
Vicat Softening Point	131 °C	268 °F	ASTM D 1525
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D 746

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 240 °C	356 - 464 °F	Recommended

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