

NOVA Chemicals Novapol® HB-W555-EC HDPE Blow Molding Resin

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

Material Notes:

HB-W555-EC 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 blow molded on most commercial blow molding machines. Features: Low particle counts, Low leaching, Excellent long term container storage performance, High rigidity, Excellent impact strength, Excellent ESCR Additives: Process Stabilizer Applications: High purity chemical packaging, High performance packaging for food and flavourings

Order this product through the following link:

http://www.lookpolymers.com/polymer_NOVA-Chemicals-Novapol-HB-W555-EC-HDPE-Blow-Molding-Resin.php

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 lb/in ³	ASTM D 792
ESCR 100% Igepal®	>= 500 hour	>= 500 hour	F50, Condition A; ASTM D 1693
High Load Melt Index	5.0 g/10 min @Load 21.6 kg, Temperature 190 °C	5.0 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	28.0 MPa	4060 psi	ASTM D 638
Elongation at Break	830 %	830 %	ASTM D 638
Flexural Modulus	1.40 GPa	203 ksi	ASTM D 790
Izod Impact, Unnotched	7.20 J/cm @Thickness 3.20 mm	13.5 ft-lb/in @Thickness 0.126 in	ASTM D 256
Tensile Impact Strength	420 kJ/m ²	200 ft-lb/in ²	ASTM D 1822

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -100 °C	<= -148 °F	F50, notched specimen; ASTM D 746

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

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