Dow UNIVAL™ DMDA-6147 NT 7 High Density Polyethylene Resin (HDPE)

Category : Polymer , Thermoplastic , Polyethylene (PE) , HDPE

Material Notes:

Good extrudability/processability Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a UNIVAL™ DMDA-6147 NT 7 is a polymer with broad molecular weight distribution and high molecular weight. This product provides an excellent combination of extrudability and parison stability, which contribute to uniform wall thickness in large parts. DMDA-6147 NT 7 HDPE resin is ideal for blow molding containers such as the 5-55 gallon closed head shipping containers and other similar parts. The broad distribution also provides outstanding environmental stress crack resistance (ESCR) at a good rigidity. These characteristics mean a wide variety of products, such as industrial chemicals, latex paints, printing inks, foodstuffs, adhesives, and other chemical specialties may be packaged in containers produced from this resin.

Information provided by Dow

Order this product through the following link:
http://www.lookpolymers.com/polymer_Dow-UNIVAL-DMDA-6147-NT-7-High-Density-Polyethylene-Resin-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.949 g/cc	0.0343 lb/in³	ASTM D792
ESCR 100% Igepal®	>= 1500 hour @Temperature 50.0 °C	>= 1500 hour @Temperature 122 °F	F₅₀; Molded and tested in accordance with ASTM D4976; ASTM D1693
High Load Melt Index	10 g/10 min @Load 21.6 kg, Temperature 190 °C	10 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	57	57	Molded and tested per ASTM D4976; ASTM D2240
Tensile Strength at Break	36.5 MPa	5300 psi	Molded and tested per ASTM D4976; ASTM D638
Tensile Strength, Yield	22.8 MPa	3300 psi	Molded and tested per ASTM D4976; ASTM D638
Elongation at Break	900 %	900 %	Molded and tested per ASTM D4976; ASTM D638
Elongation at Yield	6.0 %	6.0 %	Molded and tested per ASTM D4976; ASTM D638
Flexural Modulus	0.855 GPa	124 ksi	2% Secant; Molded and tested per ASTM D4976; ASTM D790 B
Tensile Impact Strength	462 kJ/m²	220 ft-lb/in²	Molded and tested per ASTM D4976; ASTM D1822, Type S

Thermal Properties	Metric	English	Comments
Melting Point	54.4 °C	130 °F	Dow Method (DSC)

Thermal Properties	Metric	English	Comments
Crystallization Temperature	117 °C	243 °F	DSC Method (DSC)
Deflection Temperature at 0.46 MPa (66 psi)	66.1 °C	151 °F	Molded and tested per ASTM D4976; ASTM D648
Vicat Softening Point	127 °C	261 °F	ASTM D1525
Brittleness Temperature	<= -76.1 °C	<= -105 °F	Molded and tested per ASTM D4976; ASTM D746

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