Dow UNIVAL™ DMDA-6320 NT 7 High Density Polyethylene Resin (HDPE)

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

Material Notes:

Low swell Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a UNIVAL™ DMDA-6320 NT 7 is a multipurpose polymer designed for the high speed production of blow molded containers used to package household industrial chemicals, toiletries and cosmetics, health and medicinal aids, and food products. In addition, it can be blow molded into other thin walled parts and houseware items and can be extruded into profiles. Information provided by Dow

Order this product through the following link:
http://www.lookpolymers.com/polymer_Dow-UNIVAL-DMDA-6320-NT-7-High-Density-Polyethylene-Resin-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.953 g/cc	0.0344 lb/in³	ASTM D792
ESCR 100% Igepal®	40 hour @Temperature 50.0 °C	40 hour @Temperature 122 °F	F₅₀; Molded and tested in accordance with ASTM D4976; ASTM D1693
High Load Melt Index	39 g/10 min @Load 21.6 kg, Temperature 190 °C	39 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238
Melt Index of Compound	0.46 g/10 min @Load 2.16 kg, Temperature 190 °C	0.46 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	Molded and tested in accordance with ASTM D4976; ASTM D2240
Tensile Strength at Break	33.8 MPa	4900 psi	Molded and tested in accordance with ASTM D4976; ASTM D638
Tensile Strength, Yield	25.5 MPa	3700 psi	Molded and tested in accordance with ASTM D4976; ASTM D638
Elongation at Break	1000 %	1000 %	Molded and tested in accordance with ASTM D4976; ASTM D638
Elongation at Yield	8.0 %	8.0 %	Molded and tested in accordance with ASTM D4976; ASTM D638
Flexural Modulus	1.01 GPa	146 ksi	2% Secant; Molded and tested in accordance with ASTM D4976; ASTM D790 B
Tensile Impact Strength	168 kJ/m²	80.0 ft-lb/in²	Molded and tested in accordance with ASTM D4976; ASTM D1822, Type S

Thermal Properties	Metric	English	Comments

Thermal Properties	Metric	English	Comments
Melting Point	131 °C	268 °F	Dow Method (DSC)
Crystallization Temperature	118 °C	244 °F	Dow Method (DSC)
Deflection Temperature at 0.46 MPa (66 psi)	70.0 °C	158 °F	Molded and tested in accordance with ASTM D4976; ASTM D648
Vicat Softening Point	128 °C	262 °F	ASTM D1525
Brittleness Temperature	<= -76.1 °C	<= -105 °F	Molded and tested in accordance with ASTM D4976; ASTM D746

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