

Dow UNIVAL™ DMDA-6220 NT 7 High Density Polyethylene Resin (HDPE)

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

Material Notes:

Moderate swell Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a UNIVAL™ DMDA-6220 NT 7 is a multipurpose polymer designed for 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 also can be extruded into profiles. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-UNIVAL-DMDA-6220-NT-7-High-Density-Polyethylene-Resin-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.953 g/cc	0.0344 lb/in ³	ASTM D792
ESCR 100% Igepal®	60 hour @Temperature 50.0 °C	60 hour @Temperature 122 °F	F _{>50</sub>; Molded and tested in accordance with ASTM D4976; ASTM D1693}
High Load Melt Index	33 g/10 min @Load 21.6 kg, Temperature 190 °C	33 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238
Melt Index of Compound	0.38 g/10 min @Load 2.16 kg, Temperature 190 °C	0.38 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	Molded and tested in accordance with ASTM D4976; ASTM D2240
Tensile Strength at Break	31.7 MPa	4600 psi	Molded and tested in accordance with ASTM D4976; ASTM D638
Tensile Strength, Yield	26.9 MPa	3900 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	7.0 %	7.0 %	Molded and tested in accordance with ASTM D4976; ASTM D638
Flexural Modulus	1.05 GPa	153 ksi	2% Secant; Molded and tested in accordance with ASTM D4976; ASTM D790 B
Tensile Impact Strength	168 kJ/m ²	80.0 ft-lb/in ²	Molded and tested in accordance with ASTM D4976; ASTM D1822, Type S

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	131 °C Metric	268 °F English	Dow Method (DSC) Comments
Crystallization Temperature	119 °C	246 °F	Dow Method (DSC)
Deflection Temperature at 0.46 MPa (66 psi)	67.2 °C	153 °F	Molded and tested in accordance with ASTM D4976; ASTM D648
Vicat Softening Point	129 °C	264 °F	ASTM D1525
Brittleness Temperature	<= -76.1 °C	<= -105 °F	Molded and tested in accordance with ASTM D4976; ASTM D746

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