Dow UNIVAL™ DMDC-6400 NT 7 High Density Polyethylene Resin (HDPE)

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

Material Notes:

Excellent process-ability Moderate swell Complies with U.S. FDA 21 CFR 177.1520 (c) 2.2 UNIVAL™ DMDC-6400 NT 7 is a multipurpose polymer designed for producing containers used to package dairy, water and fruit drinks. In addition, it can be blow molded into other thin-walled parts and houseware items, and also can be extruded into sheets and profiles. Information provided by Dow

Order this product through the following link:
http://www.lookpolymers.com/polymer_Dow-UNIVAL-DMDC-6400-NT-7-High-Density-Polyethylene-Resin-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.961 g/cc	0.0347 lb/in³	ASTM D792
ESCR 100% Igepal®	20 hour @Temperature 50.0 °C	20 hour @Temperature 122 °F	F₅₀; Molded and tested in accordance with ASTM D4976; ASTM D1693
High Load Melt Index	47 g/10 min @Load 21.6 kg, Temperature 190 °C	47 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238
Melt Index of Compound	0.70 g/10 min @Load 2.16 kg, Temperature 190 °C	0.70 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	58	58	Molded and tested in accordance with ASTM D4976; ASTM D2240
Tensile Strength at Break	29.0 MPa	4200 psi	Molded and tested in accordance with ASTM D4976; ASTM D638
Tensile Strength, Yield	29.6 MPa	4300 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	1.24 GPa	180 ksi	2% Secant; Molded and tested in accordance with ASTM D4976; ASTM D790 B
Tensile Impact Strength	126 kJ/m²	60.0 ft-lb/in²	Molded and tested in accordance with ASTM D4976; ASTM D1822, Type S

Thermal Properties	Metric	English	Comments
Melting Point	134 °C	273 °F	Dow Method (DSC)

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	78.9 °C	174 °F	Molded and tested in accordance with ASTM D4976; ASTM D648
Vicat Softening Point	130 °C	266 °F	ASTM D1525
Brittleness Temperature	<= -76.1 °C	<= -105 °F	Molded and tested in accordance with ASTM D4976; ASTM D746

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