

Dow UNIVAL™ DMDF-6200 NT 7 High Density Polyethylene Resin (HDPE)

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

Material Notes:

Excellent extrusion characteristics Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a UNIVAL™ DMDF-6200 NT 7 is specifically designed for use in either intermittent or continuous blow molding equipment to produce containers up to 5 gallons in size. This resin is a multipurpose blow molding resin for use in containers that 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 or sheets. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-UNIVAL-DMDF-6200-NT-7-High-Density-Polyethylene-Resin-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.955 g/cc	0.0345 lb/in ³	ASTM D792
ESCR 100% Igepal®	40 hour @Temperature 50.0 °C	40 hour @Temperature 122 °F	F _{<sub>50</sub>} ; Molded and tested in accordance with ASTM D4976; ASTM D1693
High Load Melt Index	30 g/10 min @Load 21.6 kg, Temperature 190 °C	30 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238
Melt Index of Compound	0.25 g/10 min @Load 2.16 kg, Temperature 190 °C	0.25 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	63	63	Molded and tested in accordance with ASTM D4976; ASTM D2240
Tensile Strength at Break	31.0 MPa	4500 psi	Molded and tested in accordance with ASTM D4976; ASTM D638
Tensile Strength, Yield	26.2 MPa	3800 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	1.09 GPa	158 ksi	2% Secant; Molded and tested in accordance with ASTM D4976; ASTM D790 B
Tensile Impact Strength	189 kJ/m ²	90.0 ft-lb/in ²	Molded and tested in accordance with ASTM D4976; ASTM D1822, Type S

Thermal Properties	Metric	English	Comments
Melting Point	132 °C	270 °F	Dow Method (DSC)
Crystallization Temperature	119 °C	246 °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	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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