

Dow UNIVAL™ DMDC-6143 NT 7 High Density Polyethylene Resin (HDPE)

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

Material Notes:

Excellent parison melt strength / low sag Good extrudability / process-ability Complies with U.S. FDA 21 CFR 177.1520 (c) 3.2a UNIVAL™ DMDC-6143 NT 7 is a polymer with broad molecular weight distribution and high molecular weight. This product provides good stability, which contributes to uniform wall thickness in large parts, making it ideal for blow molding of containers, such as the 5 - 30 gallon tight-head pails, and other large parts. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-UNIVAL-DMDC-6143-NT-7-High-Density-Polyethylene-Resin-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in ³	ASTM D792
ESCR 100% Igepal®	1100 hour @Temperature 50.0 °C	1100 hour @Temperature 122 °F	F₅₀; Molded and tested in accordance with ASTM D4976; ASTM D1693
High Load Melt Index	16 g/10 min @Load 21.6 kg, Temperature 190 °C	16 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	Molded and tested in accordance with ASTM D4976; ASTM D2240
Tensile Strength at Break	37.9 MPa	5500 psi	Molded and tested in accordance with ASTM D4976; ASTM D638
Tensile Strength, Yield	23.4 MPa	3400 psi	Molded and tested in accordance with ASTM D4976; ASTM D638
Elongation at Break	900 %	900 %	Molded and tested in accordance with ASTM D4976; ASTM D638
Elongation at Yield	10 %	10 %	Molded and tested in accordance with ASTM D4976; ASTM D638
Flexural Modulus	1.02 GPa	148 ksi	2% Secant; Molded and tested in accordance with ASTM D4976; ASTM D790 B
Tensile Impact Strength	357 kJ/m ²	170 ft-lb/in ²	Molded and tested in accordance with ASTM D4976; ASTM D1822, Type S

Thermal Properties	Metric	English	Comments
Melting Point	131 °C	268 °F	Dow Method (DSC)
Crystallization Temperature	125 °C	257 °F	Dow Method (DSC)

Deflection Temperature at 0.46 MPa Thermal Properties (0.1% Strain)	67.2 °C Metric	153 °F English	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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