Dow DMDA-8904 NT 7 High Density Polyethylene Resin

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

Material Notes:

DOW DMDA-8904 NT 7 is produced using UNIPOL™ process technology. It is intended for use in injection molding applications such as pails, industrial parts and other shipping containers. Information provided by Dow

Order this product through the following link:
http://www.lookpolymers.com/polymer_Dow-DMDA-8904-NT-7-High-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.952 g/cc	0.0344 lb/in³	ASTM D792
ESCR 100% Igepal®	22 hour @Temperature 50.0 °C	22 hour @Temperature 122 °F	F₅₀; Molded and tested in accordance with ASTM D4976; ASTM D1693
Melt Index of Compound	4.4 g/10 min @Load 2.16 kg, Temperature 190 °C	4.4 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	59	59	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	31.0 MPa	4500 psi	Molded and tested in accordance with ASTM D4976; ASTM D638
Elongation at Break	1200 %	1200 %	Molded and tested in accordance with ASTM D4976; ASTM D638
Elongation at Yield	9.0 %	9.0 %	Molded and tested in accordance with ASTM D4976; ASTM D638
Flexural Modulus	1.10 GPa	160 ksi	2% Secant; Molded and tested in accordance with ASTM D4976; ASTM D790 B
Tensile Impact Strength	84.0 kJ/m²	40.0 ft-lb/in²	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	119 °C	246 °F	Dow Method (DSC)
Deflection Temperature at 0.46 MPa (66 psi)	72.2 °C	162 °F	Molded and tested in accordance with ASTM D4976; ASTM D648
Vicat Softening Point	129 °C	264 °F	ASTM D1525

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -76.1 °C	<= -105 °F	Molded and tested in accordance with ASTM D4976; ASTM D746

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