

Dow DMDA-8940 NT 7 High Density Polyethylene Resin

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

Material Notes:

DOW DMDA-8940 NT 7 is produced using UNIPOL™ process technology. It is intended for use in a broad range of injection molding applications such as housewares, toys, food containers and pails. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-DMDA-8940-NT-7-High-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.951 g/cc	0.0344 lb/in ³	ASTM D792
Melt Index of Compound	44 g/10 min @Load 2.16 kg, Temperature 190 °C	44 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	64	64	Molded and tested in accordance with ASTM D4976; ASTM D2240
Tensile Strength at Break	26.9 MPa	3900 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	10 %	10 %	Molded and tested in accordance with ASTM D4976; ASTM D638
Elongation at Yield	5.0 %	5.0 %	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	84.0 kJ/m ²	40.0 ft-lb/in ²	Molded and tested in accordance with ASTM D4976; ASTM D1822, Type S

Thermal Properties	Metric	English	Comments
Melting Point	128 °C	262 °F	Dow Method (DSC)
Crystallization Temperature	116 °C	241 °F	Dow Method (DSC)
Deflection Temperature at 0.46 MPa (66 psi)	71.1 °C	160 °F	Molded and tested in accordance with ASTM D4976; ASTM D648
Vicat Softening Point	123 °C	253 °F	ASTM D1525
Brittleness Temperature	-72.2 °C	-98.0 °F	Molded and tested in accordance with ASTM D4976; ASTM D746

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