

Dow DMDA-8007 NT 7 High Density Polyethylene Resin

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

Material Notes:

DOW DMDA-8007 NT is a narrow molecular weight distribution high density homopolymer designed to offer excellent stiffness, low warpage, good/acceptable toughness, and good mold-ability. This resin is ideally suited for injection molded crates, cases, trays, tote bins, and other objects requiring high rigidity. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-DMDA-8007-NT-7-High-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.965 g/cc	0.0349 lb/in ³	ASTM D792
ESCR 100% Igepal®	2.0 hour @Temperature 50.0 °C	2.0 hour @Temperature 122 °F	F ₅₀ ; Molded and tested in accordance with ASTM D4976; ASTM D1693
High Load Melt Index	180 g/10 min @Load 21.6 kg, Temperature 190 °C	180 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238
Melt Index of Compound	8.25 g/10 min @Load 2.16 kg, Temperature 190 °C	8.25 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	61	61	Molded and tested in accordance with ASTM D4976; ASTM D2240
Tensile Strength at Break	17.9 MPa	2600 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	354 %	354 %	Molded and tested in accordance with ASTM D4976; ASTM D638
Elongation at Yield	6.0 %	6.0 %	Molded and tested in accordance with ASTM D4976; ASTM D638
Flexural Modulus	1.41 GPa	205 ksi	2% Secant; Molded and tested in accordance with ASTM D4976; ASTM D790 B
Tensile Impact Strength	168 kJ/m ²	80.0 ft-lb/in ²	Molded and tested in accordance with ASTM D4976; ASTM D1822, Type S

Thermal Properties	Metric	English	Comments
Melting Point	133 °C	271 °F	Dow Method (DSC)

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	83.9 °C	183 °F	Molded and tested in accordance with ASTM D4976; ASTM D648
Vicat Softening Point	131 °C	268 °F	ASTM D1525
Brittleness Temperature	<= -76.1 °C	<= -105 °F	Molded and tested in accordance with ASTM D4976; ASTM D746

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China