

Dow DMDB-7950 NT 7 High Density Polyethylene Resin

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

Material Notes:

DOW DMDB-7950 NT 7 is produced using UNIPOL™ process technology. It is intended for use in thin wall injection molding applications such as roll-out trash carts and other large parts with short molding cycles. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-DMDB-7950-NT-7-High-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.948 g/cc	0.0342 lb/in ³	ASTM D792
ESCR 100% Igepal®	40 hour @Temperature 50.0 °C	40 hour @Temperature 122 °F	F₅₀; Molded and tested in accordance with ASTM D4976; ASTM D1693
Melt Index of Compound	5.75 g/10 min @Load 2.16 kg, Temperature 190 °C	5.75 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	54	54	Molded and tested in accordance with ASTM D4976; ASTM D2240
Tensile Strength at Break	26.2 MPa	3800 psi	Molded and tested in accordance with ASTM D4976; ASTM D638
Tensile Strength, Yield	24.8 MPa	3600 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	8.0 %	8.0 %	Molded and tested in accordance with ASTM D4976; ASTM D638
Flexural Modulus	1.01 GPa	146 ksi	2% Secant; Molded and tested in accordance with ASTM D4976; ASTM D790 B
Tensile Impact Strength	105 kJ/m ²	50.0 ft-lb/in ²	Molded and tested in accordance with ASTM D4976; ASTM D1822, Type S

Thermal Properties	Metric	English	Comments
Melting Point	130 °C	266 °F	Dow Method (DSC)
Crystallization Temperature	118 °C	244 °F	Dow Method (DSC)
Deflection Temperature at 0.46 MPa (66 psi)	67.8 °C	154 °F	Molded and tested in accordance with ASTM D4976; ASTM D648
Vicat Softening Point	127 °C	261 °F	ASTM D1525

Thermal Properties	Metric	English	Comments
Brittleness Temperature	≤ -76.4 °C	≤ -108 °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