

Dow DNDA-8320 NT 7 Linear Low Density Polyethylene Resin

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

Material Notes:

DOW DNDA-8320 NT 7 is produced using UNIPOL™ PE process technology. It is intended for use in general purpose injection molding applications. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-DNDA-8320-NT-7-Linear-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.924 g/cc	0.0334 lb/in ³	ASTM D792
ESCR 100% Igepal®	20 hour @Temperature 50.0 °C	20 hour @Temperature 122 °F	F ₅₀ ; Molded and tested in accordance with ASTM D4976; ASTM D1693
Melt Index of Compound	20 g/10 min @Load 2.16 kg, Temperature 190 °C	20 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	50	50	Molded and tested in accordance with ASTM D4976; ASTM D2240
Tensile Strength at Break	7.58 MPa	1100 psi	Molded and tested in accordance with ASTM D4976; ASTM D638
Tensile Strength, Yield	11.7 MPa	1700 psi	Molded and tested in accordance with ASTM D4976; ASTM D638
Elongation at Break	60 %	60 %	Molded and tested in accordance with ASTM D4976; ASTM D638
Elongation at Yield	3.0 %	3.0 %	Molded and tested in accordance with ASTM D4976; ASTM D638
Flexural Modulus	0.386 GPa	56.0 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	123 °C	253 °F	Dow Method (DSC)
Crystallization Temperature	108 °C	226 °F	Dow Method (DSC)
Deflection Temperature at 0.46 MPa (66 psi)	42.8 °C	109 °F	Molded and tested in accordance with ASTM D4976; ASTM D648
Vicat Softening Point	93.9 °C	201 °F	ASTM D1525

Thermal Properties	Metric	English	Comments
Brittleness Temperature	≤ -76.1 °C	≤ -103 °F	Molded and tested in accordance with ASTM D4976; ASTM D746

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