

Dow DNDA-1082 NT 7 Linear Low Density Polyethylene Resin

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

Material Notes:

DOW DNDA-1082 NT 7 is produced using UNIPOL™ PE process technology. It is intended for high-speed injection molding of thin walled parts such as downgaged lids. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-DNDA-1082-NT-7-Linear-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.933 g/cc	0.0337 lb/in ³	ASTM D792
Melt Index of Compound	155 g/10 min @Load 2.16 kg, Temperature 190 °C	155 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	52	52	Molded and tested in accordance with ASTM D4976; ASTM D2240
Tensile Strength at Break	8.96 MPa	1300 psi	Molded and tested in accordance with ASTM D4976; ASTM D638
Tensile Strength, Yield	16.5 MPa	2400 psi	Molded and tested in accordance with ASTM D4976; ASTM D638
Elongation at Break	50 %	50 %	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	0.572 GPa	83.0 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	125 °C	257 °F	Dow Method (DSC)
Crystallization Temperature	113 °C	235 °F	Dow Method (DSC)
Deflection Temperature at 0.46 MPa (66 psi)	52.2 °C	126 °F	Molded and tested in accordance with ASTM D4976; ASTM D648
Vicat Softening Point	122 °C	252 °F	ASTM D1525
Brittleness Temperature	-20.0 °C	-4.00 °F	Molded and tested in accordance with ASTM D4976; ASTM D746

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