

Dow DNDB-1077 NT 7 Linear Low Density Polyethylene Resin

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

Material Notes:

DOW DNDB-1077 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-DNDB-1077-NT-7-Linear-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.929 g/cc	0.0336 lb/in ³	ASTM D792
ESCR 100% Igepal®	<= 1.0 hour @Temperature 50.0 °C	<= 1.0 hour @Temperature 122 °F	F₅₀; Molded and tested in accordance with ASTM D4976; ASTM D1693
Melt Index of Compound	100 g/10 min @Load 2.16 kg, Temperature 190 °C	100 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	53	53	Molded and tested in accordance with ASTM D4976; ASTM D2240
Tensile Strength at Break	8.27 MPa	1200 psi	Molded and tested in accordance with ASTM D4976; ASTM D638
Tensile Strength, Yield	11.0 MPa	1600 psi	Molded and tested in accordance with ASTM D4976; ASTM D638
Elongation at Break	120 %	120 %	Molded and tested in accordance with ASTM D4976; ASTM D638
Elongation at Yield	2.0 %	2.0 %	Molded and tested in accordance with ASTM D4976; ASTM D638
Flexural Modulus	0.524 GPa	76.0 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	126 °C	259 °F	Dow Method (DSC)
Crystallization Temperature	112 °C	234 °F	Dow Method (DSC)
Deflection Temperature at 0.46 MPa (66 psi)	47.2 °C	117 °F	Molded and tested in accordance with ASTM D4976; ASTM D648
Vicat Softening Point	96.1 °C	205 °F	ASTM D1525

Thermal Properties	Metric	English	Comments
Brittleness Temperature	-33.8 °C	-22.8 °F	Molded and tested in accordance with ASTM D4976; ASTM D746

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