

Dow DNDA-7340 NT 7 Linear Low Density Polyethylene Resin

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

Material Notes:

DOW DNDA-7340 NT 7 LLDPE resin is well-suited for use in blow molding applications such as small, squeezable bottles, as well as, extruded flexible hoses and tubing. DOW DNDA-7340 NT 7 resin is also well-suited for use in large blow molded parts, such as drum liners. Additionally, It may also be used in certain sheet and tubing applications. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-DNDA-7340-NT-7-Linear-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ASTM D792
ESCR 100% Igepal®	>= 1500 hour @Temperature 50.0 °C	>= 1500 hour @Temperature 122 °F	F₅₀; Molded and tested in accordance with ASTM D4976; ASTM D1693
High Load Melt Index	48 g/10 min @Load 21.6 kg, Temperature 190 °C	48 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238
Melt Index of Compound	0.65 g/10 min @Load 2.16 kg, Temperature 190 °C	0.65 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	49	49	Molded and tested in accordance with ASTM D4976; ASTM D2240
Tensile Strength at Break	13.8 MPa	2000 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	700 %	700 %	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	0.345 GPa	50.0 ksi	2% Secant; Molded and tested in accordance with ASTM D4976; ASTM D790 B
Tensile Impact Strength	252 kJ/m ²	120 ft-lb/in ²	Molded and tested in accordance with ASTM D4976; ASTM D1822, Type S

Thermal Properties	Metric	English	Comments
Melting Point	119 °C	246 °F	Dow Method (DSC)

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	42.2 °C	108 °F	Molded and tested in accordance with ASTM D4976; ASTM D648
Vicat Softening Point	98.9 °C	210 °F	ASTM D1525
Brittleness Temperature	<= -76.1 °C	<= -105 °F	Molded and tested in accordance with ASTM D4976; ASTM D746

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