

Dow DNDB-7441 NT 7 Linear Low Density Polyethylene Resin

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

Material Notes:

DOW DNDB-7441 NT 7 is produced using UNIPOL™ PE process technology. It is intended for use in hose and tube applications. It also has utility in gasketing, spiral wound hose, and corrugated hose applications. It is also recommended as a modifier in blends with flexible copolymers such as ethylene ethyl acetate (EVA) and ethylene ethyl acrylate (EAA) to enhance their rigidity in extrusion applications.

Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-DNDB-7441-NT-7-Linear-Low-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	natural resin; ASTM D792
Environmental Stress Crack Resistance	>= 500 hour	>= 500 hour	F_o; Compression molded parts prepared according to ASTM D 1928, condition A.; ASTM D1693
High Load Melt Index	44 g/10 min @Load 21.6 kg, Temperature 190 °C	44 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238
Melt Index of Compound	0.60 g/10 min @Load 2.16 kg, Temperature 190 °C	0.60 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	44	44	Compression molded parts prepared according to ASTM D 1928 Procedure C.; ASTM D2240
Tensile Strength at Break	15.5 MPa	2250 psi	Compression molded parts prepared according to ASTM D 1928 Procedure C.; ASTM D638
Tensile Strength, Yield	11.0 MPa	1600 psi	Compression molded parts prepared according to ASTM D 1928 Procedure C.; ASTM D638
Elongation at Break	800 %	800 %	Compression molded parts prepared according to ASTM D 1928 Procedure C.; ASTM D638
Flexural Modulus	0.310 GPa	45.0 ksi	Compression molded parts prepared according to ASTM D 1928, method 1, procedure B.; ASTM D790

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -100 °C	<= -148 °F	Compression molded parts prepared according to ASTM D 1928, procedure A.; ASTM D746

Thermal Properties

Metric

English

Comments

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