

Dow DFDC-7525 NT High Density Polyethylene Resin

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

Material Notes:

DOW DFDC-7525 NT is produced using UNIPOL™ process technology. It is intended for use in thin wall drip tape and micro-irrigation tube, hose and tube, and profile extrusion applications. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-DFDC-7525-NT-High-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.939 g/cc	0.0339 lb/in ³	natural resin; ASTM D792
Environmental Stress Crack Resistance	>= 2000 hour	>= 2000 hour	F_o; Compression molded parts prepared according to ASTM D 1928, condition A.; ASTM D1693
High Load Melt Index	20 g/10 min @Load 21.6 kg, Temperature 190 °C	20 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238
Melt Index of Compound	0.15 g/10 min @Load 2.16 kg, Temperature 190 °C	0.15 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55	55	Compression molded parts prepared according to ASTM D 1928 Procedure C.; ASTM D2240
Tensile Strength at Break	30.0 MPa	4350 psi	Compression molded parts prepared according to ASTM D 1928 Procedure C.; ASTM D638
Tensile Strength, Yield	26.2 MPa	3800 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	0.689 GPa	100 ksi	Compression molded parts prepared according to ASTM D 1928, method 1, procedure B.; ASTM D790

Thermal Properties	Metric	English	Comments
Melting Point	125 °C	257 °F	Dow Method (DSC)
Vicat Softening Point	116 °C	241 °F	ASTM D1525
			Compression molded parts prepared

Brittleness Temperature Thermal Properties	≤ -100 °C Metric	≤ -148 °F English	according to ASTM D 1928, procedure A, ASTM D 746
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