

Dow DGDA-2475 NT High Density Polyethylene Resin

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

Material Notes:

DOW DGDA-2475 NT is produced using UNIPOL™ process technology. It is intended for use in corrugated pipe applications. It has been specifically designed for extrusion of corrugated pipes with the addition of color concentrates. Information provided by Dow

Order this product through the following link:

http://www.lookpolymers.com/polymer_Dow-DGDA-2475-NT-High-Density-Polyethylene-Resin.php

Physical Properties	Metric	English	Comments
Density	0.9525 g/cc	0.03441 lb/in ³	ASTM D792
Environmental Stress Crack Resistance	48 hour	48 hour	F _o ; Compression molded parts prepared according to ASTM D 1928, condition B.; ASTM D1693
High Load Melt Index	21 g/10 min @Load 21.6 kg, Temperature 190 °C	21 g/10 min @Load 47.6 lb, Temperature 374 °F	ASTM D1238
Melt Index of Compound	0.20 g/10 min @Load 2.16 kg, Temperature 190 °C	0.20 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	Compression molded parts prepared according to ASTM D 1928 Procedure C.; ASTM D2240
Tensile Strength at Break	31.7 MPa	4600 psi	Compression molded parts prepared according to ASTM D 1928 Procedure C.; ASTM D638
Tensile Strength, Yield	24.1 MPa	3500 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	0.965 GPa	140 ksi	Compression molded parts prepared according to ASTM D 1928, method 1, procedure B.; ASTM D790

Thermal Properties	Metric	English	Comments
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	Compression molded parts prepared according to ASTM D 1928, procedure A.; ASTM D746

Descriptive Properties	Value	Comments
Notched Constant Ligament Stress hours, min	24	ASTM F2136

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