Dow FLEXOMER™ DFDA-1137 NT 7 Very Low Density Polyethylene (VLDPE) Resin

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

Material Notes:

FLEXOMER™ DFDA-1137 NT 7 is an ethylene copolymer intended for use in molding and extrusion applications where high flexibility is desired. It is especially useful for flexible hose and tube applications as well as for blow molding small squeezable bottles. It has a high molecular weight and a relatively narrow molecular weight distribution and exhibits excellent low temperature toughness and outstanding flex life characteristics. It is also recommended as a blending component to modify and improve the physical properties of high pressure and linear low density polyethylene resins. Information provided by Dow

Order this product through the following link:
http://www.lookpolymers.com/polymer_Dow-FLEXOMER-DFDA-1137-NT-7-Very-Low-Density-Polyethylene-VLDPE-Resin.php

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in³	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
Melt Index of Compound	1.0 g/10 min @Load 2.16 kg, Temperature 190 °C	1.0 g/10 min @Load 4.76 lb, Temperature 374 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	94	94	Compression molded parts prepared according to ASTM D 1928 Procedure C.; ASTM D676
Tensile Strength at Break	19.3 MPa	2800 psi	Compression molded parts prepared according to ASTM D 1928 Procedure C.; ASTM D638
Elongation at Break	900 %	900 %	Compression molded parts prepared according to ASTM D 1928 Procedure C.; ASTM D638
1% Secant Modulus	117 MPa	17000 psi	Compression molded parts prepared according to ASTM D 1928 Procedure C.; ASTM D638

Thermal Properties	Metric	English	Comments
Melting Point	118 °C	244 °F	Dow Method (DSC)
Vicat Softening Point	86.1 °C	187 °F	ASTM D1525
Brittleness Temperature	<= -100 °C	<= -148 °F	Compression molded parts prepared according to ASTM D 1928, procedure A.; ASTM D746

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