

Plastics Group Polifil® RP-LDPE Low Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LDPE , Low Density Polyethylene (LDPE), Molded

Material Notes:

Polifil® RP-Low Density Polyethylene is a soft, tough material with good clarity and high chemical resistance. LDPE remains flexible and retains impact strength at very low temperatures. High melt flow (low viscosity) grades are injection molded into products such as containers and lids. Low melt flow (high viscosity) grades are used in blown films for bags and construction, extruded sheeting and pipe, and blow molded containers such as squeeze bottles. Linear Low Density (LLDPE) resins exhibit higher strength and stiffness than traditional LDPE resins for many of these same applications. Information provided by The Plastics Group.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Plastics-Group-Polifil-RP-LDPE-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Density	0.920 g/cc	0.0332 lb/in ³	ASTM D792
Water Absorption	0.010 %	0.010 %	24 hours; ASTM D570
Melt Flow	1.0 - 3.0 g/10 min	1.0 - 3.0 g/10 min	190/2.16; May be specified; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	12.4 MPa	1800 psi	ASTM D638
Elongation at Break	>= 300 %	>= 300 %	ASTM D638
Flexural Modulus	0.124 GPa	18.0 ksi	1% Secant; ASTM D790
Izod Impact, Notched	NB	NB	ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	50.6 °C	123 °F	ASTM D648

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