

Polimeri Europa Clearflex® FG 336 Hexene Copolymer Linear Low Density Polyethylene

Category : Polymer , Thermoplastic , Polyethylene (PE) , LLDPE , Linear Low Density Polyethylene (LLDPE)/Hexene, Film Grade

Material Notes:

Clearflex FG 336 is a hexene copolymer linear low density polyethylene (C6-LLDPE), with antioxidant, slip agent, antiblocking agent and processing aid, suitable for blown film extrusion. Films obtained from Clearflex FG 336 show high rigidity together with optimum Elmendorf tear and impact resistance. Main Applications: Clearflex FG 336 is recommended for shipping sacks, where the perfect balance between additives (in terms of slip and antiblocking) and mechanical performance leads to the manufacture of a tough and easily peelable film. Moreover, for its sealing characteristics, together with low temperature mechanical resistance, Clearflex FG 336 is suggested for the production of freezer bags, either in coextrusion or in blend with LDPE. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Clearflex-FG-336-Hexene-Copolymer-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.926 g/cc	0.926 g/cc	ISO 1183
Thickness	10.0 - 50.0 microns	0.394 - 1.97 mil	Recommended
Melt Flow	0.80 g/10 min @Load 2.16 kg, Temperature 190 °C	0.80 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	12.0 MPa	1740 psi	ISO 527-3
Film Tensile Strength at Yield, TD	13.0 MPa	1890 psi	ISO 527-3
Film Elongation at Break, MD	550 %	550 %	ISO 527-3
Film Elongation at Break, TD	740 %	740 %	ISO 527-3
Coefficient of Friction, Dynamic	0.11	0.11	ISO 8295
Elmendorf Tear Strength, MD	8.3558 g/micron	212.24 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	25.475 g/micron	647.07 g/mil	ISO 6383-2
Dart Drop Test	120 g	0.265 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	45.0 MPa	6530 psi	ISO 527-3
Film Tensile Strength at Break, TD	36.0 MPa	5220 psi	ISO 527-3
1% Secant Modulus, MD	180 MPa	26100 psi	ISO 527-3
1% Secant Modulus, TD	200 MPa	29000 psi	ISO 527-3

Mechanical Properties	Metric	English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	127 °C	261 °F	Internal method
Vicat Softening Point	110 °C @Load 1.00 kg	230 °F @Load 2.20 lb	ISO 306/A
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	13 %	13 %	ISO 14782
Gloss	54 %	54 %	45°; ASTM D2457
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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