

Polimeri Europa Flexirene® CM 50 Butene Copolymer Linear Low Density Polyethylene

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

Material Notes:

Flexirene CM 50 is a butene copolymer with medium density (C4-LLDPE), with antioxidants, suitable for cast film extrusion. Main

Applications: Flexirene CM 50 is a highly stiff product and it is recommended for the production of coextruded stretch film in slip-cling formulations where it acts as the slip layer. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Flexirene-CM-50-Butene-Copolymer-Linear-Low-Density-Polyethylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.938 g/cc	0.938 g/cc	ISO 1183
Thickness	10.0 - 50.0 microns	0.394 - 1.97 mil	Recommended
Melt Flow	4.1 g/10 min @Load 2.16 kg, Temperature 190 °C	4.1 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	17.0 MPa	2470 psi	ISO 527-3
Film Tensile Strength at Yield, TD	16.0 MPa	2320 psi	ISO 527-3
Film Elongation at Break, MD	600 %	600 %	ISO 527-3
Film Elongation at Break, TD	700 %	700 %	ISO 527-3
Coefficient of Friction, Dynamic	>= 0.50	>= 0.50	ISO 8295
Elmendorf Tear Strength, MD	0.8152 g/micron	20.71 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	2.038 g/micron	51.77 g/mil	ISO 6383-2
Dart Drop Test	45.0 g	0.0992 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	25.0 MPa	3630 psi	ISO 527-3
Film Tensile Strength at Break, TD	20.0 MPa	2900 psi	ISO 527-3
1% Secant Modulus, MD	350 MPa	50800 psi	ISO 527-3
1% Secant Modulus, TD	370 MPa	53700 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	127 °C	261 °F	Internal method

Thermal Properties	Metric	English	Comments
Vicat Softening Point	@Load 1.00 kg	@Load 2.20 lb	ISO 306/A
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	8.0 %	8.0 %	ISO 14782
Gloss	75 %	75 %	45°; ASTM D2457

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