

Polimeri Europa Riblene® FC 30 Low Density Polyethylene - Blown Film Extrusion

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

Material Notes:

Riblene FC 30 is a high molecular weight low density polyethylene resin (LDPE) suitable for blown film extrusion. Riblene FC 30 is characterized by a high melt strength leading to a good bubble stability during extrusion. Films manufactured with Riblene FC 30 are easily heat shrinkable and characterized by optimum mechanical properties. Main Applications: Riblene FC 30 is recommended for the production of heavy duty shrink film, industrial bags and agricultural film. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Riblene-FC-30-Low-Density-Polyethylene-Blown-Film-Extrusion.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.922 g/cc	0.922 g/cc	ISO 1183
Thickness	50.0 - 250 microns	1.97 - 9.84 mil	Recommended
Melt Flow	0.27 g/10 min @Load 2.16 kg, Temperature 190 °C	0.27 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	10.0 MPa	1450 psi	ISO 527-3
Film Tensile Strength at Yield, TD	10.0 MPa	1450 psi	ISO 527-3
Film Elongation at Break, MD	400 %	400 %	ISO 527-3
Film Elongation at Break, TD	600 %	600 %	ISO 527-3
Coefficient of Friction, Dynamic	>= 0.50	>= 0.50	ISO 8295
Elmendorf Tear Strength, MD	2.2418 g/micron	56.942 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	3.5665 g/micron	90.589 g/mil	ISO 6383-2
Dart Drop Test	330 g	0.728 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	27.0 MPa	3920 psi	ISO 527-3
Film Tensile Strength at Break, TD	25.0 MPa	3630 psi	ISO 527-3
1% Secant Modulus, MD	160 MPa	23200 psi	ISO 527-3
1% Secant Modulus, TD	180 MPa	26100 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Vicat Softening Point	93.0 °C	199 °F	ISO 306/A
	@Load 1.00 kg	@Load 2.20 lb	
Brittleness Temperature	<= -75.0 °C	<= -103 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	11 %	11 %	ISO 14782
Gloss	50 %	50 %	45°; ASTM D2457

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