

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

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

Material Notes:

Riblene FL 30 is a low density polyethylene (LDPE) ideal for blown film extrusion. Riblene FL 30 is characterized by a good balance between processability, mechanical and optical properties. Films manufactured with Riblene FL 30 are easily heat shrinkable. Main Applications:

Riblene FL 30 is recommended for general blown film applications, for the production of low gauge film and shrink film, for lamination and for blend. Information provided by Polimeri Europa.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	0.924 g/cc	0.924 g/cc	ISO 1183
Thickness	25.0 - 80.0 microns	0.984 - 3.15 mil	Recommended
Melt Flow	2.2 g/10 min @Load 2.16 kg, Temperature 190 °C	2.2 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.0 MPa	1600 psi	ISO 527-3
Film Tensile Strength at Yield, TD	11.0 MPa	1600 psi	ISO 527-3
Film Elongation at Break, MD	300 %	300 %	ISO 527-3
Film Elongation at Break, TD	650 %	650 %	ISO 527-3
Coefficient of Friction, Dynamic	>= 0.50	>= 0.50	ISO 8295
Elmendorf Tear Strength, MD	8.152 g/micron	207.1 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	5.6045 g/micron	142.35 g/mil	ISO 6383-2
Dart Drop Test	125 g	0.276 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	22.0 MPa	3190 psi	ISO 527-3
1% Secant Modulus, MD	180 MPa	26100 psi	ISO 527-3
1% Secant Modulus, TD	190 MPa	27600 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	5.5 %	5.5 %	ISO 14782
Gloss	72 %	72 %	45°; ASTM D2457

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