

Polimeri Europa Riblene® FF 39 Low Density Polyethylene - Blown Film Extrusion

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

Material Notes:

Riblene FF 39 is a high molecular weight low density polyethylene (LDPE), suitable for blown film extrusion. Riblene FF 39 is characterized by a good melt strength leading to a good bubble stability during extrusion. Films manufactured with Riblene FF 39 are easily heat shrinkable and characterized by good optical and mechanical properties. Main Applications: Riblene FF 39 is recommended for the production of shrink film for medium and light loads, for diapers and for blend. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Riblene-FF-39-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	30.0 - 150 microns	1.18 - 5.91 mil	Recommended
Melt Flow	0.70 g/10 min @Load 2.16 kg, Temperature 190 °C	0.70 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	12.0 MPa	1740 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	4.5855 g/micron	116.47 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	6.114 g/micron	155.3 g/mil	ISO 6383-2
Dart Drop Test	180 g	0.397 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	22.0 MPa	3190 psi	ISO 527-3
Film Tensile Strength at Break, TD	20.0 MPa	2900 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	95.0 °C	203 °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	7.0 %	7.0 %	ISO 14782
Gloss	68 %	68 %	45°; ASTM D2457

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