

Polimeri Europa Riblene® FF 20 Low Density Polyethylene - Blown Film Extrusion

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

Material Notes:

Riblene FF 20 is a high molecular weight low density polyethylene (LDPE) suitable for blown film extrusion. Riblene FF 20 is characterized by a good melt strength leading to a good bubble stability during extrusion. Films manufactured with Riblene FF 20 are easily heat shrinkable and characterized by good mechanical properties. Main Applications: Riblene FF 20 is recommended for the production of shrink film for medium loads, industrial packaging, mulch film and blend. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Riblene-FF-20-Low-Density-Polyethylene-Blown-Film-Extrusion.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.921 g/cc	0.921 g/cc	ISO 1183
Thickness	40.0 - 150 microns	1.57 - 5.91 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	10.0 MPa	1450 psi	ISO 527-3
Film Tensile Strength at Yield, TD	11.0 MPa	1600 psi	ISO 527-3
Film Elongation at Break, MD	450 %	450 %	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	4.076 g/micron	103.5 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	5.095 g/micron	129.4 g/mil	ISO 6383-2
Dart Drop Test	280 g	0.617 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	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	91.0 °C	196 °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	8.0 %	8.0 %	ISO 14782
Gloss	62 %	62 %	45°; ASTM D2457

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