

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

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

Material Notes:

Riblene FH 20 is a low density polyethylene (LDPE) suitable for blown film extrusion. Riblene FH 20 is characterized by a good balance between processability and mechanical properties. Films manufactured with Riblene FH 20 are easily heat shrinkable and have good optical and mechanical properties. Main Applications: Riblene FH 20 is recommended for general packaging film and for diapers. Information provided by Polimeri Europa.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Specific Gravity	0.923 g/cc	0.923 g/cc	ISO 1183
Thickness	30.0 - 100 microns	1.18 - 3.94 mil	Recommended
Melt Flow	1.1 g/10 min @Load 2.16 kg, Temperature 190 °C	1.1 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	350 %	350 %	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	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	140 g	0.309 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	71 %	71 %	45°; ASTM D2457

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