

Polimeri Europa Riblene® FM 23 Low Density Polyethylene - Blown Film Extrusion

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

Material Notes:

Riblene FM 23 is a low density polyethylene (LDPE) with added slip and antiblocking agents, suitable for blown film extrusion. Riblene FM 23 is characterized by a good balance between processability, mechanical, and optical properties. Films manufactured with Riblene FM 23 are easily heat shrinkable. Main Applications: Riblene FM 23 is recommended for general packaging film, for the production of thin transparent film and for blend. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Riblene-FM-23-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	18.0 - 50.0 microns	0.709 - 1.97 mil	Recommended
Melt Flow	3.5 g/10 min @Load 2.16 kg, Temperature 190 °C	3.5 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	300 %	300 %	ISO 527-3
Film Elongation at Break, TD	550 %	550 %	ISO 527-3
Coefficient of Friction, Dynamic	0.10	0.10	ISO 8295
Elmendorf Tear Strength, MD	6.114 g/micron	155.3 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	4.076 g/micron	103.5 g/mil	ISO 6383-2
Dart Drop Test	150 g	0.331 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	23.0 MPa	3340 psi	ISO 527-3
Film Tensile Strength at Break, TD	20.0 MPa	2900 psi	ISO 527-3
1% Secant Modulus, MD	160 MPa	23200 psi	ISO 527-3
1% Secant Modulus, TD	170 MPa	24700 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Vicat Softening Point	90.0 °C	194 °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	6.5 %	6.5 %	ISO 14782
Gloss	68 %	68 %	45°; ASTM D2457
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

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