

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

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

Material Notes:

Riblene FL 23 is a low density polyethylene (LDPE) with added slip agent, suitable for blown film extrusion. Riblene FL 23 is characterized by a good balance between processability and mechanical properties. Films manufactured with Riblene FL 23 are easily heat shrinkable and have good optical and mechanical properties. Main Applications: Riblene FL 23 is recommended for general blown film applications, for the production of low gauge film and shrink film, for lamination and for blending. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Riblene-FL-23-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	2.1 g/10 min @Load 2.16 kg, Temperature 190 °C	2.1 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	300 %	300 %	ISO 527-3
Film Elongation at Break, TD	600 %	600 %	ISO 527-3
Coefficient of Friction, Dynamic	0.13	0.13	ISO 8295
Elmendorf Tear Strength, MD	9.171 g/micron	232.9 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	6.114 g/micron	155.3 g/mil	ISO 6383-2
Dart Drop Test	125 g	0.276 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	24.0 MPa	3480 psi	ISO 527-3
Film Tensile Strength at Break, TD	23.0 MPa	3340 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 @Load 1.00 kg	199 °F @Load 2.20 lb	ISO 306/A
Brittleness Temperature	<= -75.0 °C	<= -103 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	6.5 %	6.5 %	ISO 14782
Gloss	65 %	65 %	45°; ASTM D2457

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