

Polimeri Europa Riblene® FM 53 Low Density Polyethylene - Blown Film Extrusion

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

Material Notes:

Riblene FM 53 is a low density polyethylene (LDPE) with added slip and antiblocking agents, suitable for blown film extrusion. Riblene FM 53 is characterized by optimum optical properties and rigidity. Films manufactured with Riblene FM 53 are easily heat shrinkable. Main Applications: Riblene FM 53 is recommended for automatic packaging where low gauge films having a certain rigidity and gloss are required (hygienic packaging). Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Riblene-FM-53-Low-Density-Polyethylene-Blown-Film-Extrusion.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.933 g/cc	0.933 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	14.0 MPa	2030 psi	ISO 527-3
Film Tensile Strength at Yield, TD	15.0 MPa	2180 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	0.18	0.18	ISO 8295
Elmendorf Tear Strength, MD	5.095 g/micron	129.4 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	6.6235 g/micron	168.24 g/mil	ISO 6383-2
Dart Drop Test	80.0 g	0.176 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	21.0 MPa	3050 psi	ISO 527-3
Film Tensile Strength at Break, TD	20.0 MPa	2900 psi	ISO 527-3
1% Secant Modulus, MD	300 MPa	43500 psi	ISO 527-3
1% Secant Modulus, TD	310 MPa	45000 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Vicat Softening Point	107 °C	225 °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	9.0 %	9.0 %	ISO 14782
Gloss	70 %	70 %	45°; ASTM D2457

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