

Polimeri Europa Riblene® FM 34 E Low Density Polyethylene - Blown Film Extrusion

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

Material Notes:

Riblene FM 34 E is a low density polyethylene (LDPE) with added slip (erucamide) and antiblocking agents, suitable for blown film extrusion. Riblene FM 34 E is characterized by a good balance between processability, mechanical, and optical properties. Films manufactured with Riblene FM 34 E are easily heat shrinkable. Main Applications: Riblene FM 34 E is recommended for general blown film applications, for the production of thin transparent film, for garment and newspaper packaging, freezer bags and blend. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Riblene-FM-34-E-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	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	12.0 MPa	1740 psi	ISO 527-3
Film Tensile Strength at Yield, TD	12.0 MPa	1740 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	0.11	0.11	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	105 g	0.232 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	190 MPa	27600 psi	ISO 527-3
1% Secant Modulus, TD	200 MPa	29000 psi	ISO 527-3

Thermal Properties	Metric	English	Comments
Melting Point	114 °C	237 °F	Internal method
Vicat Softening Point	94.0 °C @Load 1.00 kg	201 °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	70 %	70 %	45°; ASTM D2457
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

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