

Polimeri Europa Riblene® FC 39 Low Density Polyethylene - Blown Film Extrusion

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

Material Notes:

Riblene FC 39 is a high molecular weight low density polyethylene (LDPE) suitable for blown film extrusion. Riblene FC 39 is characterized by a high melt strength leading to a good bubble stability during extrusion. Films manufactured with Riblene FC 39 are easily heat shrinkable and characterized by high rigidity, good mechanical and optical properties. Main Applications: Riblene FC 39 is recommended for the production of medium rigidity shrink film characterized by good clarity and gloss. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Riblene-FC-39-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	40.0 - 150 microns	1.57 - 5.91 mil	Recommended
Melt Flow	0.25 g/10 min @Load 2.16 kg, Temperature 190 °C	0.25 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	11.0 MPa	1600 psi	ISO 527-3
Film Tensile Strength at Yield, TD	11.0 MPa	1600 psi	ISO 527-3
Film Elongation at Break, MD	450 %	450 %	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	3.057 g/micron	77.65 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	4.5855 g/micron	116.47 g/mil	ISO 6383-2
Dart Drop Test	320 g	0.706 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	28.0 MPa	4060 psi	ISO 527-3
Film Tensile Strength at Break, TD	26.0 MPa	3770 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	7.5 %	7.5 %	ISO 14782
Gloss	63 %	63 %	45°; ASTM D2457

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China