

Polimeri Europa Greenflex® FF 45 Ethylene Vinyl Acetate Copolymer - Blown Film Extrusion

Category : Polymer , Film , Thermoplastic , Ethylene Vinyl Acetate , Ethylene Vinyl Acetate Copolymer (EVA), Film Grade

Material Notes:

Greenflex FF 45 is an ethylene vinyl acetate copolymer (EVA) for blown film extrusion. Films produced with Greenflex FF 45 show high toughness. Main Applications: Greenflex FF 45 is recommended for the production of greenhouse film, stretch hood packaging and sanitary applications. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Greenflex-FF-45-Ethylene-Vinyl-Acetate-Copolymer-Blown-Film-Extrusion.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.935 g/cc	0.935 g/cc	ISO 1183
Vinyl Acetate Content	14 %	14 %	Internal Method
Thickness	30.0 - 150 microns	1.18 - 5.91 mil	Recommended
Melt Flow	0.70 g/10 min @Load 2.16 kg, Temperature 190 °C	0.70 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	92	92	ISO 868/A
Hardness, Shore D	39	39	ISO 868/A
Film Tensile Strength at Yield, MD	6.00 MPa	870 psi	ISO 527-3
Film Tensile Strength at Yield, TD	5.00 MPa	725 psi	ISO 527-3
Film Elongation at Break, MD	450 %	450 %	ISO 527-3
Film Elongation at Break, TD	700 %	700 %	ISO 527-3
Coefficient of Friction, Dynamic	>= 0.50	>= 0.50	ISO 8295
Elmendorf Tear Strength, MD	2.4456 g/micron	62.118 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	4.076 g/micron	103.5 g/mil	ISO 6383-2
Dart Drop Test	700 g	1.54 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	31.0 MPa	4500 psi	ISO 527-3
Film Tensile Strength at Break, TD	29.0 MPa	4210 psi	ISO 527-3
1% Secant Modulus, MD	65.0 MPa	9430 psi	ISO 527-3

Mechanical Properties	Metric ^{Pa}	English ^{psi}	Comments
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Thermal Properties	Metric	English	Comments
Melting Point	93.0 °C	199 °F	Internal Method
Vicat Softening Point	73.0 °C @Load 1.00 kg	163 °F @Load 2.20 lb	ISO 306/A
Brittleness Temperature	<= -80.0 °C	<= -112 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	1.5 %	1.5 %	ISO 14782
Gloss	83 %	83 %	45°; ASTM D2457

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