

Polimeri Europa Greenflex® FC 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 FC 45 is an ethylene vinyl acetate copolymer (EVA) for blown film extrusion. Films produced with Greenflex FC 45 exhibit good optical properties, excellent impact resistance and low creep. The resin shows outstanding bubble stability. Main Applications: Greenflex FC 45 is recommended for the production of very wide agricultural films. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Greenflex-FC-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	50.0 - 200 microns	1.97 - 7.87 mil	Recommended
Melt Flow	0.30 g/10 min @Load 2.16 kg, Temperature 190 °C	0.30 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	40	40	ISO 868/A
Film Tensile Strength at Yield, MD	5.00 MPa	725 psi	ISO 527-3
Film Tensile Strength at Yield, TD	4.00 MPa	580 psi	ISO 527-3
Film Elongation at Break, MD	490 %	490 %	ISO 527-3
Film Elongation at Break, TD	650 %	650 %	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	30.0 MPa	4350 psi	ISO 527-3
Film Tensile Strength at Break, TD	30.0 MPa	4350 psi	ISO 527-3
1% Secant Modulus, MD	65.0 MPa	9430 psi	ISO 527-3

Mechanical Properties	Metric	English	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	2.0 %	2.0 %	ISO 14782
Gloss	80 %	80 %	45°; ASTM D2457

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