

Polimeri Europa Greenflex® FF 55 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 55 is an ethylene vinyl acetate copolymer (EVA) for blown film extrusion. Films produced with Greenflex FF 55 show high flexibility. Main Applications: Greenflex FF 55 is recommended for the production of greenhouse film and flexible packaging, especially where high fracture mechanical properties (impact resistance) are required. Information provided by Polimeri Europa.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimeri-Europa-Greenflex-FF-55-Ethylene-Vinyl-Acetate-Copolymer-Blown-Film-Extrusion.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.941 g/cc	0.941 g/cc	ISO 1183
Vinyl Acetate Content	19 %	19 %	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	89	89	ISO 868/A
Hardness, Shore D	38	38	ISO 868/A
Film Tensile Strength at Yield, MD	4.00 MPa	580 psi	ISO 527-3
Film Tensile Strength at Yield, TD	4.00 MPa	580 psi	ISO 527-3
Film Elongation at Break, MD	500 %	500 %	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	3.3627 g/micron	85.413 g/mil	ISO 6383-2
Elmendorf Tear Strength, TD	5.6045 g/micron	142.35 g/mil	ISO 6383-2
Dart Drop Test	>= 700 g	>= 1.54 lb	F50; ISO 7765-1
Film Tensile Strength at Break, MD	36.0 MPa	5220 psi	ISO 527-3
Film Tensile Strength at Break, TD	34.0 MPa	4930 psi	ISO 527-3
1% Secant Modulus, MD	42.0 MPa	6090 psi	ISO 527-3

Mechanical Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Melting Point	84.0 °C	183 °F	Internal Method
Vicat Softening Point	60.0 °C @Load 1.00 kg	140 °F @Load 2.20 lb	ISO 306/A
Brittleness Temperature	<= -80.0 °C	<= -112 °F	ASTM D746

Optical Properties	Metric	English	Comments
Haze	1.0 %	1.0 %	ISO 14782
Gloss	87 %	87 %	45°; ASTM D2457

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