

Greenflex® FF 55 F

Ethylene Vinyl Acetate Copolymer

Versalis S.p.A.

Message:

Greenflex FF 55 F is an ethylene vinyl acetate copolymer (EVA) for blown film extrusion.

Films produced with Greenflex FF 55 F show high flexibility.

Main Application

Greenflex FF 55 F is recommended for the production of greenhouse film and flexible packaging, especially where high fracture mechanical properties (impact resistance) are required.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Flexibility		
	Good Impact Resistance		
Uses	Film		
	Packaging		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	0.941	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.70	g/10 min	ISO 1133
Vinyl Acetate Content	19.0	wt%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, Injection Molded	89		
Shore D, Injection Molded	38		
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	> 0.50		ISO 8295
Films	Nominal Value	Unit	Test Method
Film Thickness - Recommended / Available	30 to 150µm		
Tensile Modulus			ISO 527-3
1% Secant, MD : Blown Film	42.0	MPa	
1% Secant, TD : Blown Film	45.0	MPa	
Tensile Stress			ISO 527-3
MD : Yield, Blown Film	4.00	MPa	
TD : Yield, Blown Film	4.00	MPa	

MD : Break, Blown Film	36.0	MPa	
TD : Break, Blown Film	34.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, Blown Film	500	%	
TD : Break, Blown Film	700	%	
Dart Drop Impact ¹ (Blown Film)	> 700	g	ISO 7765-1
Elmendorf Tear Strength ²			ISO 6383-2
MD	33.0	kN/m	
TD	55.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -80.0	°C	ASTM D746
Vicat Softening Temperature	60.0	°C	ISO 306/A
Melting Temperature	84.0	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, Blown Film)	83		ASTM D2457
Haze (Blown Film)	1.5	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	150 to 180	°C	
NOTE			
1.	F50		
2.	Blown Film		

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