

Greenflex® FF 45

Ethylene Vinyl Acetate Copolymer

Versalis S.p.A.

Message:

Greenflex FF 45 is an ethylene vinyl acetate copolymer (EVA) suitable for blown film extrusion.

Films produced with Greenflex FF 45 show high toughness.

Main Application

Greenflex FF 45 is recommended for the production of greenhouse film, stretch hood packaging and sanitary applications.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Toughness		
Uses	Film		
	Packaging		
	Sanitary Products		
	Stretch Wrap		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Blown Film		
Physical	Nominal Value	Unit	Test Method
Density	0.935	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	14.0	wt%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, Injection Molded	92		
Shore D, Injection Molded	39		
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	50 to 200 µm		
Tensile Modulus			ISO 527-3
1% Secant, MD : Blown Film	65.0	MPa	
1% Secant, TD : Blown Film	70.0	MPa	
Tensile Stress			ISO 527-3
MD : Yield, Blown Film	6.00	MPa	
TD : Yield, Blown Film	5.00	MPa	

MD : Break, Blown Film	31.0	MPa	
TD : Break, Blown Film	29.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, Blown Film	450	%	
TD : Break, Blown Film	700	%	
Dart Drop Impact ¹ (Blown Film)	700	g	ISO 7765-1
Elmendorf Tear Strength ²			ISO 6383-2
MD	24.0	kN/m	
TD	40.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -80.0	°C	ASTM D746
Vicat Softening Temperature	73.0	°C	ISO 306/A
Melting Temperature	93.0	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, Blown Film)	80		ASTM D2457
Haze (Blown Film)	1.5	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	160 to 190	°C	
NOTE			
1.	F50		
2.	Blown Film		

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