

Greenflex® FD 50

Ethylene Vinyl Acetate Copolymer

Versalis S.p.A.

Message:

Greenflex FD 50 is an ethylene vinyl acetate copolymer resin (EVA) for blown film extrusion.

Films produced by Greenflex FD 50 exhibit good optical and sealing properties, high flexibility and toughness.

Greenflex FD 50 is recommended for the production of agricultural films and water proofing membrane having outstanding mechanical performances (flexibility, elasticity and adherence) and dimensional stability.

General Information			
Features	Good dimensional stability		
	High elasticity		
	Copolymer		
	Optical		
	Good heat sealability		
	Good flexibility		
	Good adhesion		
	Good toughness		
	Compliance of Food Exposure		
Uses	Films		
	Membrane		
	Agricultural application		
Agency Ratings	European food contact, not rated		
Forms	Particle		
Processing Method	Film extrusion		
	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.938	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.40	g/10 min	ISO 1133
Vinyl Acetate Content	17.0	wt%	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shore A, Injection Molding	90		ISO 868
Shore D, Injection Molding	39		ISO 868
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 150 µm		
Tensile Modulus			ISO 527-3
1% sectioning, MD: Blown film	55.0	MPa	ISO 527-3
1% sectioning, TD: Blown film	60.0	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: yield, blow film	4.50	MPa	ISO 527-3
TD: yield, blow film	4.00	MPa	ISO 527-3
MD: fracture, blow film	35.0	MPa	ISO 527-3
TD: fracture, blow film	30.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: fracture, blow film	450	%	ISO 527-3
TD: fracture, blow film	700	%	ISO 527-3
Dart Drop Impact ¹ (Blown Film)	> 700	g	ISO 7765-1
Elmendorf Tear Strength ²			ISO 6383-2
MD	20.0	kN/m	ISO 6383-2
TD	44.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -80.0	°C	ASTM D746
Vicat Softening Temperature	67.0	°C	ISO 306/A
Melting Temperature	88.0	°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	160 - 190	°C	
NOTE			
1.	F50		
2.	Blown Film		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT