

Greenflex® FC 45

Ethylene Vinyl Acetate Copolymer

Versalis S.p.A.

Message:

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

Films produced by Greenflex FC 45 exhibit good optical properties, excellent impact resistance and low creep. The resin shows outstanding bubble stability.

Main Application

Greenflex FC 45 is recommended for the production of very wide agricultural films.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Creep Resistance		
	High Impact Resistance		
	Opticals		
Uses	Agricultural Applications		
	Film		
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)	0.30	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	40		
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	5.00	MPa	

TD : Yield, Blown Film	4.00	MPa	
MD : Break, Blown Film	30.0	MPa	
TD : Break, Blown Film	30.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, Blown Film	490	%	
TD : Break, Blown Film	650	%	
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)	2.0	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	170 to 200	°C	
NOTE			
1.	F50		
2.	Blown Film		

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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



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