

Greenflex® FD 53

Ethylene Vinyl Acetate Copolymer

Versalis S.p.A.

Message:

Greenflex FD 53 is an ethylene vinyl acetate copolymer (EVA), containing antiblocking agent, for blown film extrusion.

Films produced by Greenflex FD 53 exhibit good sealing properties, high flexibility and toughness and optimum processability.

Main Application

Greenflex FD 53 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			
Additive	Antiblock		
Features	Antiblocking		
	Copolymer		
	Food Contact Acceptable		
	Good Adhesion		
	Good Dimensional Stability		
	Good Flexibility		
	Good Heat Seal		
	Good Processability		
	Good Toughness		
	High Elasticity		
Uses	Agricultural Applications		
	Film		
	Membranes		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Blown 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)	0.47	g/10 min	ISO 1133
Vinyl Acetate Content	17.0	wt%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, Injection Molded	90		
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	55.0	MPa	
1% Secant, TD : Blown Film	60.0	MPa	
Tensile Stress			ISO 527-3
MD : Yield, Blown Film	5.00	MPa	
TD : Yield, Blown Film	4.50	MPa	
MD : Break, Blown Film	34.0	MPa	
TD : Break, Blown Film	32.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, Blown Film	490	%	
TD : Break, Blown Film	630	%	
Dart Drop Impact ¹ (Blown Film)	> 700	g	ISO 7765-1
Elmendorf Tear Strength ²			ISO 6383-2
MD	30.0	kN/m	
TD	50.0	kN/m	
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)	65		ASTM D2457
Haze (Blown Film)	6.0	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	160 to 190	°C	
NOTE			
1.	F50		
2.	Blown Film		

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