

Greenflex® FL 25

Ethylene Vinyl Acetate Copolymer

Versalis S.p.A.

Message:

Greenflex FL 25 is an ethylene vinyl acetate copolymer (EVA) for blown film extrusion.

Films produced with Greenflex FL 25 show good optical properties and excellent sealability.

Main Application

Greenflex FL 25 is recommended for the production of lamination film, coextruded films and freezer bags.

General Information	
Features	Copolymer
	Food Contact Acceptable
	Good Heat Seal
	Opticals
Uses	Bags
	Film
	Laminates
Agency Ratings	EU Food Contact, Unspecified Rating
Forms	Pellets
Processing Method	Blown Film
	Coextrusion

Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ISO 1133
Vinyl Acetate Content	4.5	wt%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 868
Shore A, Injection Molded	96		
Shore D, Injection Molded	44		
Mechanical	Nominal Value	Unit	Test Method
Coefficient of Friction (vs. Itself - Dynamic, Blown Film)	> 0.20		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	140	MPa	
1% Secant, TD : Blown Film	150	MPa	
Tensile Stress			ISO 527-3

MD : Yield, Blown Film	7.00	MPa	
TD : Yield, Blown Film	7.00	MPa	
MD : Break, Blown Film	25.0	MPa	
TD : Break, Blown Film	22.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, Blown Film	300	%	
TD : Break, Blown Film	560	%	
Dart Drop Impact ¹ (Blown Film)	400	g	ISO 7765-1
Elmendorf Tear Strength ²			ISO 6383-2
MD	25.0	kN/m	
TD	38.0	kN/m	
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -80.0	°C	ASTM D746
Vicat Softening Temperature	82.0	°C	ISO 306/A
Melting Temperature	103	°C	Internal Method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, Blown Film)	87		ASTM D2457
Haze (Blown Film)	1.0	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	170 to 200	°C	
NOTE			
1.	F50		
2.	Blown Film		

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