

Greenflex® FD 23 F

Ethylene Vinyl Acetate Copolymer

Versalis S.p.A.

Message:

Greenflex FD 23 F is an ethylene vinyl acetate copolymer (EVA) suitable for blown film extrusion. Greenflex FD 23 F represents the additivated version with slip and antiblocking of Greenflex FD 20 F.

Films produced from Greenflex FD 23 F exhibit good optical properties, high impact resistance, tensile strength, elongation at break and low creep.

Main Application

Greenflex FD 23 F is recommended for thermo-shrinkable films and multilayer stretch films for food packaging, included deep-frozen food packaging.

General Information			
Additive	Anti-caking agent		
	slip agent		
Features	High tensile strength		
	Copolymer		
	smoothness		
	Optical		
	Anti-caking property		
	Impact resistance, high		
	Good creep resistance		
	Compliance of Food Exposure		
Uses	Extended tensile rate		
	Films		
	Multilayer film		
	Stretch winding		
	Food packaging		
Agency Ratings	Shrinkable film		
	European food contact, not rated		
	Particle		
Forms	Blow film		
Processing Method			
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.50	g/10 min	ISO 1133
Vinyl Acetate Content	5.0	wt%	Internal method
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness			ISO 868
Shore A, Injection Molding	95		ISO 868
Shore D, Injection Molding	44		ISO 868

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 150 µm		
Tensile Modulus			ISO 527-3
1% sectioning, MD: Blown film	120	MPa	ISO 527-3
1% sectioning, TD: Blown film	125	MPa	ISO 527-3
Tensile Stress			ISO 527-3
MD: yield, blow film	8.00	MPa	ISO 527-3
TD: yield, blow film	8.00	MPa	ISO 527-3
MD: fracture, blow film	25.0	MPa	ISO 527-3
TD: fracture, blow film	25.0	MPa	ISO 527-3
Tensile Elongation			ISO 527-3
MD: fracture, blow film	450	%	ISO 527-3
TD: fracture, blow film	600	%	ISO 527-3
Dart Drop Impact ¹ (Blown Film)	420	g	ISO 7765-1/A
Elmendorf Tear Strength ²			ISO 6383-2
MD	26.0	kN/m	ISO 6383-2
TD	40.0	kN/m	ISO 6383-2
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -80.0	°C	ASTM D746
Vicat Softening Temperature	85.0	°C	ISO 306/A
Melting Temperature	104	°C	Internal method
Optical	Nominal Value	Unit	Test Method
Gloss (45°, Blown Film)	75		ASTM D2457
Haze (Blown Film)	3.0	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	170 - 200	°C	
NOTE			
1.	F50		
2.	Blown Film		

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