

Greenflex® FD 20 F

Ethylene Vinyl Acetate Copolymer

Versalis S.p.A.

Message:

Greenflex FD 20 F is an ethylene vinyl acetate copolymer (EVA) suitable for blown film extrusion.

Films produced by Greenflex FD20 exhibit good optical properties, high impact resistance, tensile strength, elongation at break and low creep.

Main Application

Greenflex FD 20 F is recommended for thermo-shrinkable films and multilayer stretch films for food packaging, included deep-frozen food packaging.

General Information			
Features	Copolymer		
	Food Contact Acceptable		
	Good Creep Resistance		
	High Elongation		
	High Impact Resistance		
	High Tensile Strength		
	Opticals		
Uses	Film		
	Food Packaging		
	Multilayer Film		
	Shrink Wrap		
	Stretch Wrap		
Agency Ratings	EU Food Contact, Unspecified Rating		
Forms	Pellets		
Processing Method	Blown Film		
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
Shore Hardness			ISO 868
Shore A, Injection Molded	95		
Shore D, Injection Molded	44		
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	120	MPa	
1% Secant, TD : Blown Film	125	MPa	
Tensile Stress			ISO 527-3
MD : Yield, Blown Film	8.00	MPa	
TD : Yield, Blown Film	8.00	MPa	
MD : Break, Blown Film	26.0	MPa	
TD : Break, Blown Film	26.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, Blown Film	450	%	
TD : Break, Blown Film	600	%	
Dart Drop Impact ¹ (Blown Film)	420	g	ISO 7765-1
Elmendorf Tear Strength ²			ISO 6383-2
MD	26.0	kN/m	
TD	40.0	kN/m	
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)	80		ASTM D2457
Haze (Blown Film)	1.5	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	170 to 200	°C	
NOTE			
1.	F50		
2.	Blown Film		

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