Greenflex® FD 20

Ethylene Vinyl Acetate Copolymer

Versalis S.p.A.

Message:

Greenflex FD 20 is an ethylene vinyl acetate copolymer (EVA) suitable for blown film extrusion.
Films produced by Greenflex FD 20 exhibit good optical properties, high impact resistance, tensile strength, elongation at break and low creep.
Main Application
Greenflex FD 20 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/cm³	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)	65		ASTM D2457
Haze (Blown Film)	6.0	%	ISO 14782
Extrusion	**Nominal Value**	**Unit**	
Melt Temperature	170 to 200	°C	
NOTE			
1.	F50		
2.	Blown Film		

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