

CERTENE™ EDF-224F

Ethylene Vinyl Acetate Copolymer
Muehlstein

Message:

EDF-224F is a certified prime grade 3 wt% VINYL ACETATE-ETHYLENE copolymer designed for production of specialty blown films requiring excellent balance of mechanical and optical properties. EDF-224F films exhibit outstanding clarity, high toughness and impact strength, high resistance to low temperature brittleness, and superior sealability. EDF-224F applications include coextrusion sealing layers for superior Hot-Tack strength and low Seal Initiation Temperature (SIT), ice bags, frozen food, poultry bags, and packaging films requiring good heat sealability. Maximum recommended film drawdown is 1.0 mil (25 µ). EDF-224F contains medium slip and medium antiblock. EDF-224F complies with FDA regulation 21CFR 177.1350 (a) + (b) concerning Ethylene-Vinyl Acetate copolymers use in contact with food articles, subject to restrictions: 1) may not be used for contact with food containing more than 0.5% alcohol, and: 2) may not be used in materials for food packaging exceeding 10 mils (250 µ) thickness.

General Information			
Additive	Medium Antiblock		
	Medium Slip		
Features	Good Toughness		
	High Clarity		
	High Impact Resistance		
	Medium Antiblocking		
	Medium Slip		
Uses	Bags		
	Film		
	Packaging		
Agency Ratings	FDA 21 CFR 177.1350 (a) + (b)		
Forms	Pellets		
Processing Method	Blown Film		
	Coextrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.924	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break, 0.0318 mm)	23.0	MPa	ASTM D638
Films	Nominal Value	Unit	Test Method
Film Thickness - Recommended / Available ²	<1.0 mil (25µ)		
Elastic Modulus - MD	164	MPa	ASTM D882
Elastic Modulus - TD	188	MPa	ASTM D882
Tensile Strength ³			ASTM D882

MD : Yield,32 μm	10.0	MPa	
TD : Yield,32 μm	9.50	MPa	
MD : Break, 32 μm	23.0	MPa	
TD : Break, 32 μm	20.0	MPa	
Tensile Elongation ⁴			ASTM D882
MD : Break, 32 μm	230	%	
TD : Break, 32 μm	580	%	
Dart Drop Impact ⁵ (32 μm)	140	g	ASTM D1709A
Elmendorf Tear Strength ⁶			ASTM D1922
MD : 32 μm	240	g	
TD : 32 μm	140	g	
Thermal	Nominal Value	Unit	
Melting Temperature	175 to 185	°C	
Optical	Nominal Value	Unit	Test Method
Gloss ⁷ (45°, 31.8 μm)	75		ASTM D2457
Haze ⁸	6.0	%	ASTM D1003
NOTE			
1.	blow-up-ratio 2.5:1		
2.	drawdown		
3.	blow-up-ratio 2.5:1		
4.	blow-up-ratio 2.5:1		
5.	F50, blow-up-ratio 2.5:1		
6.	blow-up-ratio 2.5:1		
7.	blow-up-ratio 2.5:1		
8.	melt temperature 350-370°F (175-185°C), blow-up-ratio 2.5:1		

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