

# CERTENE™ EDF-125D

Ethylene Vinyl Acetate Copolymer  
Muehlstein

Message:

EDF-125D is a certified prime grade 5 % VINYL ACETATE-ETHYLENE copolymer designed for BLOWN FILM applications requiring excellent toughness and strength properties. EDF-125D contains Extra High levels of slip and antiblock additives. EDF-125D exhibits high strength, exceptional low temperature impact resistance and outstanding sealability. EDF-240 primary film application is for flexible packaging and coextruded heat seal layers. EDF-125D contains medium slip and high antiblock. EDF-125D 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	High smoothness		
	High caking resistance		
Features	High smoothness		
	High caking resistance		
	High strength		
	Good heat sealability		
	Good flexibility		
	Low temperature impact resistance		
	Good toughness		
	Compliance of Food Exposure		
Uses	Packaging		
	Films		
	Seals		
Agency Ratings	FDA 21 CFR 177.1350 (a) + (b)		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.925	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Vinyl Acetate Content	5.0	wt%	
Films	Nominal Value	Unit	Test Method
Secant Modulus - 1% Secant, MD <sup>1</sup> (Blown Film)	65.0	MPa	ASTM D882
Tensile Strength - MD (yielding, blown film)	27.0	MPa	ASTM D882
Dart Drop Impact (Blown Film)	370	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922

MD: Blow film	40	g	ASTM D1922
TD: Blow film	80	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	64.0	°C	ASTM D1525
Melting Temperature	85.0	°C	DSC
Optical	Nominal Value	Unit	Test Method
Gloss (45°, Blown Film)	50		ASTM D2457
Haze (Blown Film)	27	%	ASTM D1003
Additional Information			
Film Specimen: Film made on a 2.5 inch blown film line with a 6 inch die gap at a 2.5:1 blow-up ratio, MT- 334-351°F (168-177°C)			
NOTE			

1. 1.3 mm/min

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#### Recommended distributors for this material

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