

# CERTENE™ LLGF-123D

Linear Low Density Polyethylene  
Muehlstein

## Message:

LLGF-123D is a certified prime grade Ethylene-Octene Copolymer specially developed for production of High Performance Blown films of outstanding mechanical properties, LLGF-123D features easy processability and films exhibit high toughness, very good Elmendorf Tear, high Impact strength and Puncture resistance. LLGF-123D major applications include film coextrusion, super strength liners, lamination films, stretch wrapping films, food packaging, and superior load retention carry-on-bags. Maximum recommended film drawdown is 0.4 mil. LLGF-123D contains medium slip and high antiblock. LLGF-123D complies with FDA regulation 21CFR 177.1520 (c) 3.2(a) and most international regulations concerning the use of Polyethylene in contact with food articles.

General Information	
Additive	High caking resistance Moderate smoothness
Features	High caking resistance High strength Copolymer Perforation resistance Impact resistance, high Workability, good Good tear strength Good toughness Compliance of Food Exposure Octene comonomer Moderate smoothness
Uses	Packaging Films Laminate Lining Bags Stretch winding Food packaging
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a
Forms	Particle
Processing Method	Blow film Co-extrusion molding

Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm <sup>3</sup>	ASTM D1505

Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	μm	
secant modulus			ASTM D882
1% secant, MD: 25 μm	186	MPa	ASTM D882
1% secant, TD: 25 μm	207	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 μm	10.0	MPa	ASTM D882
TD: Yield, 25 μm	10.0	MPa	ASTM D882
MD: Break, 25 μm	48.0	MPa	ASTM D882
TD: Break, 25 μm	44.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 μm	440	%	ASTM D882
TD: Break, 25 μm	770	%	ASTM D882
Dart Drop Impact <sup>1</sup> (25 μm)	330	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 μm	400	g	ASTM D1922
TD : 25 μm	730	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 μm, Blown Film)	45		ASTM D2457
Haze (25.0 μm, Blown Film)	14	%	ASTM D1003
Additional Information			
Film Specimen: 1.0 mil (25 μm) film, melt temperature 420-450°F (215-230°C), blow-up-ratio 2.5 :1.			
NOTE			
1.	F50		

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