

# CERTENE® LLHF-0826A

Linear Low Density Polyethylene  
Muehlstein

Message:

LLHF-0826A is a certified prime grade Ethylene-Hexene Copolymer designed for production of superior strength and high stiffness Blown films. LLHF-0826A features good processability and films exhibit high impact strength, exceptional creep resistance, good tensile and tear resistances. LLHF-0826A major applications include heavy duty bags, shipping sacks, high strength liners, grocery bags and frozen food packaging films. Maximum recommended film drawdown is 0.5 mil. LLHF-0826A contains no slip and no antiblock. LLHF-0826A 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			
Features	Rigid, good		
	High strength		
	Copolymer		
	hexene comonomer		
	Impact resistance, high		
	Workability, good		
	Good creep resistance		
	Good tear strength		
	Compliance of Food Exposure		
Uses	Packaging		
	Films		
	Lining		
	Bags		
	Heavy packing bag		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.926	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	ASTM D882
secant modulus			
1% secant, MD: 25 µm	237	MPa	ASTM D882
1% secant, TD: 25 µm	281	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm	11.7	MPa	ASTM D882
TD: Yield, 25 µm	13.1	MPa	ASTM D882

MD: Break, 25 µm	57.9	MPa	ASTM D882
TD: Break, 25 µm	48.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	510	%	ASTM D882
TD: Break, 25 µm	800	%	ASTM D882
Dart Drop Impact <sup>1</sup> (25 µm)	110	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	140	g	ASTM D1922
TD : 25 µm	780	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.4 µm, Blown Film)	55		ASTM D2457
Haze (25.4 µm, Blown Film)	13	%	ASTM D1003
Additional Information			
Film Specimen: 1.0 mils (25 µm) film, melt temperature 395-430°F (200-220°C), blow-up-ratio 2.5 :1			
NOTE			
1.	F50		

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#### Recommended distributors for this material

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