

# CERTENE™ LLHF-117XA

Linear Low Density Polyethylene  
Muehlstein

## Message:

LLHF-117XA is a certified prime grade Ethylene-Hexene Copolymer specially developed for extrusion of SUPER STRENGTH Blown films of outstanding Impact and Toughness. LLHF-117XA features good processability and films exhibit exceptional Elmendorf Tear strength and Puncture resistance. LLHF-117XA major applications include super strong liners, lamination films, stretch wrapping films, and super strong carry-on-bags. Maximum recommended film drawdown is 0.3 mil. LLHF-117XA contains no slip and no antiblock. LLHF-117XA 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	Copolymer		
	hexene comonomer		
	Perforation resistance		
	Impact resistance, high		
	Workability, good		
	Good tear strength		
	Good toughness		
	Compliance of Food Exposure		
Uses	Films		
	Lining		
	Bags		
	Stretch winding		
	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	0.917	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	193	MPa	ASTM D882
1% secant, TD: 25 µm	207	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm	11.0	MPa	ASTM D882
TD: Yield, 25 µm	12.0	MPa	ASTM D882
MD: Break, 25 µm	55.0	MPa	ASTM D882

TD: Break, 25 µm	40.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	650	%	ASTM D882
TD: Break, 25 µm	780	%	ASTM D882
Dart Drop Impact <sup>1</sup> (25 µm)	480	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	430	g	ASTM D1922
TD : 25 µm	750	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 µm, Blown Film)	55		ASTM D2457
Haze (25.0 µm, Blown Film)	9.0	%	ASTM D1003
Additional Information			
Film Specimen: 1.0 mils (25 µm) film, melt temperature 420-450°F (215-230°C), blow-up-ratio 2.5 :1.			
NOTE			
1.	F50		

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#### Recommended distributors for this material

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