

CERTENE™ LLHF-116XF

Linear Low Density Polyethylene
Muehlstein

Message:

LLHF-116XF is a certified prime, Super-Hexene Copolymer developed for blown film with outstanding Impact Strength and Toughness. LLHF-116XF features good processability and exhibits exceptional Elmendorf Tear strength and Puncture resistance. LLHF-116XF major applications include high strength liners (industrial and consumer), super strong carry-on-bags and industrial packaging. LLHF-116XF contains High slip and High antiblock. LLHF-116XF complies with FDA regulation 21CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact. LLHF-116XF also complies with most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Additive	High smoothness		
	High caking resistance		
Features	High smoothness		
	High caking resistance		
	Copolymer		
	hexene comonomer		
	Perforation resistance		
	Impact resistance, high		
	Workability, good		
	Good tear strength		
	Good toughness		
	Compliance of Food Exposure		
Uses	Packaging		
	Films		
	Lining		
	Bags		
	Industrial application		
	Consumer goods application field		
	Heavy packing bag		
Agency Ratings	FDA 21 CFR 177.1520		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.916	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.75	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	

Tensile Strength			ASTM D882
MD: Yield, 25 µm	8.96	MPa	ASTM D882
TD: Yield, 25 µm	8.96	MPa	ASTM D882
MD: Break, 25 µm	40.7	MPa	ASTM D882
TD: Break, 25 µm	33.1	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	690	%	ASTM D882
TD: Break, 25 µm	960	%	ASTM D882
Dart Drop Impact (25 µm)	550	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	420	g	ASTM D1922
TD : 25 µm	680	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Haze (25.4 µm, Blown Film)	22	%	ASTM D1003
Additional Information			

Film Specimen: 1.0 mil (25 micron) film, blow-up-ratio 3 :1.

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