

CERTENE™ LLHF-123F

Linear Low Density Polyethylene
Muehlstein

Message:

LLHF-123F is a certified prime grade Ethylene-Hexene Copolymer designed for production of high strength GP packaging Blown Films. LLHF-123F features good processability and films exhibit exceptional toughness, superior dart impact strength, high Elmendorf Tear resistance, and excellent Creep resistance. LLHF-123F major applications include high strength liners, heavy duty bags, grocery bags, and frozen food packaging. Maximum recommended film drawdown is 0.5 mil. LLHF-123F contains high slip and high antiblock. LLHF-123F complies with FDA regulation 21CFR 177.1520(c) 3.2(a) and 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		
	High strength		
	Copolymer		
	hexene comonomer		
	Impact resistance, high		
	Workability, good		
	Good creep resistance		
	Good tear strength		
	Good toughness		
	Compliance of Food Exposure		
Uses	Packaging		
	Films		
	Lining		
	Bags		
	Food packaging		
	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	0.923	g/cm ³	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	230	MPa	ASTM D882
1% secant, TD: 25 µm	255	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm	12.0	MPa	ASTM D882
TD: Yield, 25 µm	11.0	MPa	ASTM D882
MD: Break, 25 µm	54.0	MPa	ASTM D882
TD: Break, 25 µm	40.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	500	%	ASTM D882
TD: Break, 25 µm	800	%	ASTM D882
Dart Drop Impact ¹ (25 µm)	140	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	150	g	ASTM D1922
TD : 25 µm	770	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.4 µm, Blown Film)	55		ASTM D2457
Haze (25.0 µm, Blown Film)	12	%	ASTM D1003
Additional Information			
Film Specimen: 1.0 mils (25 µm) film, melt temperature 420-430°F (215-220°C), blow-up-ratio 2.5 :1.			
NOTE			
1.	F50		

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