

CERTENE™ LLHF-120B

Linear Low Density Polyethylene
Muehlstein

Message:

LLHF-120B is a certified prime resin containing Hexene-comonomer designed for production of superior strength and low stiffness Blown films. LLHF-120B features easy processability and films exhibit high impact strength, very good tear and excellent creep resistances. LLHF-120B major applications include heavy duty bags, high strength liners, grocery bags and frozen food packaging. Maximum recommended film drawdown is 0.5 mil. LLHF-120B contains no slip and medium antiblock.

General Information			
Additive	Moderate caking resistance		
Features	Low density		
	Rigid, good		
	High strength		
	Impact resistance, high		
	Workability, good		
	Good creep resistance		
	Good tear strength		
	Moderate caking resistance		
Uses	Films		
	Lining		
	Bags		
	Food packaging		
	Heavy packing bag		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.920	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	260	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	57.0	MPa	ASTM D882

TD: Break, 25 µm	41.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	630	%	ASTM D882
TD: Break, 25 µm	880	%	ASTM D882
Dart Drop Impact (25 µm)	180	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	350	g	ASTM D1922
TD : 25 µm	800	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.4 µm)	60		ASTM D2457
Haze (25.4 µm)	9.2	%	ASTM D1003

Additional Information

This Specimen was compression molded and was tested according to ASTM D1928 Procedure C.

Extrusion	Nominal Value	Unit
Melt Temperature	215 - 220	°C

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