

CERTENE™ LLBF-120F

Linear Low Density Polyethylene
Muehlstein

Message:

LLBF-120F is a certified prime resin with Butene-comonomer, designed for production of Blown films used in general purpose packaging. LLBF-120F features excellent combination of easy processability with good film strength as well as wide heat sealing temperature range. LLBF-120F applications include garment bags, produce bags and liners. LLBF-120F contains high slip and high antiblock. LLBF-120F complies with FDA regulation 21CFR 177.1520(c)3.1a and with most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Additive	High smoothness		
	High caking resistance		
Features	Broad Seal Range		
	Butene comonomer		
	High smoothness		
	High caking resistance		
	Workability, good		
	Good strength		
	Compliance of Food Exposure		
Uses	Packaging		
	Films		
	Lining		
	Bags		
	Agricultural application		
	Laundry bag		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
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	ASTM D882
secant modulus			
1% secant, MD: 25 µm	193	MPa	
1% secant, TD: 25 µm	223	MPa	ASTM D882
Tensile Strength			ASTM D882

MD: Yield, 25 µm	9.38	MPa	ASTM D882
TD: Yield, 25 µm	9.51	MPa	ASTM D882
MD: Break, 25 µm	34.5	MPa	ASTM D882
TD: Break, 25 µm	27.6	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	550	%	ASTM D882
TD: Break, 25 µm	820	%	ASTM D882
Dart Drop Impact ¹ (25 µm)	85	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	100	g	ASTM D1922
TD : 25 µm	600	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.4 µm, Blown Film)	35		ASTM D2457
Haze (25.4 µm, Blown Film)	20	%	ASTM D1003
Additional Information			
Film Specimen: 1.0 mils (25 µm) film using barefoot version; melt temperature 390-395°F; blow-up-ratio 2.5 :1.			
Extrusion	Nominal Value	Unit	
Melt Temperature	199 - 202	°C	
NOTE			
1.	F50		

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