

# CERTENE™ LLBF-120A

Linear Low Density Polyethylene  
Muehlstein

Message:

LLBF-120A is a certified prime resin with Butene-comonomer, designed for production of Blown films used in general purpose packaging. LLBF-120A features excellent combination of easy processability with good film strength as well as wide heat sealing temperature range. LLBF-120A applications include garment bags, produce bags and liners. LLBF-120A contains no slip and no antiblock. LLBF-120A 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			
Features	Broad Seal Range		
	Butene comonomer		
	Workability, good		
	Good strength		
	Compliance of Food Exposure		
Uses	Films		
	Bags		
	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 <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, blown film	193	MPa	ASTM D882
1% secant, TD: 25 µm, blown film	223	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm, blown film	9.38	MPa	ASTM D882
TD: Yield, 25 µm, blown film	9.51	MPa	ASTM D882
MD: Broken, 25 µm, blown film	34.5	MPa	ASTM D882
TD: Broken, 25 µm, blown film	27.6	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 25 µm, blown film	550	%	ASTM D882
TD: Broken, 25 µm, blown film	820	%	ASTM D882
Dart Drop Impact <sup>1</sup> (25 µm, Blown Film)	85	g	ASTM D1709A

Elmendorf Tear Strength			ASTM D1922
MD: 25 μm, blown film	100	g	ASTM D1922
TD: 25 μm, blown film	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			
1.0 mils (25μm) film; 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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#### Recommended distributors for this material

### Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

