

CERTENE™ LLBF-122F

Linear Low Density Polyethylene
Muehlstein

Message:

LLBF-122F is a certified prime resin Butene-comonomer, specially designed for production of high performance Blown films for general purpose packaging. LLBF-122F features excellent combination of easy processability with very good film strength as well as wide heat sealing temperature range. LLBF-122F major applications include garment bags, produce bags and liners. Maximum recommended film drawdown is 0.5 mil. LLBF-122F contains high slip and high antiblock. LLBF-122F complies with FDA regulation 21CFR 177.1520 (c) 3.1 (a) and with most international regulations concerning the use of Polyethylene in conct 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		
	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	
secant modulus			ASTM D882
1% secant, MD	214	MPa	ASTM D882
1% secant, TD	248	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield	11.0	MPa	ASTM D882

TD: Yield	11.0	MPa	ASTM D882
MD: Fracture	44.8	MPa	ASTM D882
TD: Fracture	29.6	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture	650	%	ASTM D882
TD: Fracture	990	%	ASTM D882
Dart Drop Impact ¹	85	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD	80	g	ASTM D1922
TD	550	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	121	°C	ASTM D3418
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	65		ASTM D2457
Haze	7.5	%	ASTM D1003
Additional Information			
Film Specimen: 1.0 mils (25 µm) film, melt temperature 395-430°F (200-220°C), blow-up-ratio 2.5 :1.			
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

