

CERTENE™ LLBF-122D

Linear Low Density Polyethylene
Muehlstein

Message:

LLBF-122D is a certified prime grade Ethylene-Butene-copolymer, specially designed for production of BLOWN FILM for general purpose applications. LLBF-122D features excellent combination of easy processability with very good film strength as well as toughness properties. LLBF-122D major applications include industrial liners, garment, trash and produce bags. Maximum recommended film drawdown is 0.5 mil. LLBF-122D contains medium slip and high antiblock. LLBF-122D complies with FDA regulation 21CFR 117.1520 (c) 3.1 (a) and with most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Additive	High caking resistance		
	Moderate smoothness		
Features	Butene comonomer		
	High caking resistance		
	Copolymer		
	Workability, good		
	Good strength		
	Good toughness		
	Compliance of Food Exposure		
	Moderate smoothness		
Uses	Films		
	Lining		
	Bags		
	Agricultural application		
	Food packaging		
	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	0.918	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	207	MPa	ASTM D882
1% secant, TD: 25 µm	228	MPa	ASTM D882

Tensile Strength			ASTM D882
MD: Yield, 25 µm	8.27	MPa	ASTM D882
TD: Yield, 25 µm	8.27	MPa	ASTM D882
MD: Break, 25 µm	55.2	MPa	ASTM D882
TD: Break, 25 µm	40.7	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	570	%	ASTM D882
TD: Break, 25 µm	840	%	ASTM D882
Dart Drop Impact ¹ (25 µm)	95	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	80	g	ASTM D1922
TD : 25 µm	350	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.4 µm, Blown Film)	45		ASTM D2457
Haze (25.4 µm, Blown Film)	17	%	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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