

CERTENE™ LLBF-223G

Linear Low Density Polyethylene
Muehlstein

Message:

LLBF-223G is a certified prime resin Butene-comonomer, designed for production of high drawdown, high output general purpose packaging Blown films. LLBF-223G features a combination of excellent processability with good film strength as well as wide heat sealing temperature range. LLBF-223G major applications include garment bags, produce bags and liners. Maximum recommended film drawdown is 0.5 mil. LLBF-223G contains high slip and very high antiblock. LLBF-223G complies with FDA regulation 21CFR 177.1520 (c) 3.1(a) and most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Additive	High smoothness		
	High caking resistance		
Features	Butene comonomer		
	High smoothness		
	High caking resistance		
	Workability, good		
	Good stripping		
	Good strength		
	Good heat sealability		
	Compliance of Food Exposure		
Uses	General		
	Packaging		
	Films		
	Lining		
	Bags		
	Food packaging		
	General		
Agency Ratings	Laundry bag		
	FDA 21 CFR 177.1520(c) 3.1a		
	Particle		
	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.923	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	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	179	MPa	ASTM D882
1% secant, TD: 25 µm	193	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	36.5	MPa	ASTM D882
TD: Break, 25 µm	26.2	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	650	%	ASTM D882
TD: Break, 25 µm	780	%	ASTM D882
Dart Drop Impact ¹ (25 µm)	70	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	120	g	ASTM D1922
TD : 25 µm	340	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.4 µm, Blown Film)	22		ASTM D2457
Haze (25.4 µm, Blown Film)	29	%	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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