

CERTENE™ LDF-720A (BF)

Low Density Polyethylene

Muehlstein

Message:

LDF-720A is a certified prime resin specially designed for production of high drawdown thin gauged high clarity Blown films. LDF-720A features excellent combination of easy processability at high extrusion rates and very good balance of film mechanical properties. Films display very good color stability and superior heat seal performance. LDF-720A applications include films for garment laundry and dry cleaning, banana tree shroud bags, and produce bags. Maximum recommended film drawdown is 0.5 mils. LDF-720A contains no slip and no antiblock. LDF-720A complies with FDA regulation 21CFR 177.1520 (c) 2.2 and most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Features	Workability, good		
	Good stripping		
	Good heat sealability		
	Good color stability		
	Compliance of Food Exposure		
Uses	Films		
	Food packaging		
	Laundry bag		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.2		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	7.0	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	228	MPa	ASTM D882
1% secant, TD: 25 µm	276	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm	9.65	MPa	ASTM D882
TD: Yield, 25 µm	8.96	MPa	ASTM D882
MD: Break, 25 µm	20.7	MPa	ASTM D882
TD: Break, 25 µm	14.5	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	150	%	ASTM D882
TD: Break, 25 µm	500	%	ASTM D882
Dart Drop Impact ¹ (25 µm)	30	g	ASTM D1709A

Elmendorf Tear Strength			ASTM D1922
MD : 25 μm	150	g	ASTM D1922
TD : 25 μm	110	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.4 μm, Blown Film)	70		ASTM D2457
Haze (25.4 μm, Blown Film)	6.5	%	ASTM D1003
Additional Information			
Film Specimen: 1.0 mils (25 μm) film, melt temperature 300-340°F (150-170°C), blow-up-ratio 2.5 :1			
NOTE			
1.	F50		

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