

CERTENE™ LLGF-120A

Linear Low Density Polyethylene
Muehlstein

Message:

LLGF-120A is a certified prime grade Ethylene-Octene Copolymer specially developed for production of High Performance Blown films of outstanding mechanical properties, LLGF-120A features easy processability and films exhibit high toughness, very good Elmendorf Tear, high Impact strength and Puncture resistance. LLGF-120A major applications include film coextrusion, super strength liners, lamination films, stretch wrapping films, food packaging, and superior load retention carry-on-bags. Maximum recommended film drawdown is 0.4 mil. LLGF-120A contains no slip and no antiblock. LLGF-120A complies with FDA regulation 21CFR 177.1520 (c) 3.2(a) and most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Features	High strength		
	Copolymer		
	Perforation resistance		
	Impact resistance, high		
	Workability, good		
	Good tear strength		
	Good toughness		
	Compliance of Food Exposure		
	Octene comonomer		
Uses	Packaging		
	Films		
	Laminate		
	Lining		
	Bags		
	Stretch winding		
	Food packaging		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Processing Method	Blow film		
	Co-extrusion molding		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm³	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	186	MPa	ASTM D882
1% secant, TD: 25 µm	207	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm	10.0	MPa	ASTM D882
TD: Yield, 25 µm	10.0	MPa	ASTM D882
MD: Break, 25 µm	48.0	MPa	ASTM D882
TD: Break, 25 µm	44.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	440	%	ASTM D882
TD: Break, 25 µm	770	%	ASTM D882
Dart Drop Impact ¹ (25 µm)	330	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	400	g	ASTM D1922
TD : 25 µm	730	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 µm, Blown Film)	45		ASTM D2457
Haze (25.0 µm, Blown Film)	14	%	ASTM D1003
Additional Information			
Film Specimen: 1.0 mil (25 µm) film, melt temperature 420-450°F (215-230°C), blow-up-ratio 2.5 :1.			
NOTE			
1.	F50		

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