CERTENE™ LDF-120J

Low Density Polyethylene

Muehlstein

Message:

LDF-120J is a certified prime resin, designed for production of general purpose, blown films. LDF-120J features an excellent combination of easy processability, good melt strength and good impact strength. LDF-120J applications include agricultural film, freezer film, liners, shrink film and a blend component for improved melt strength. LDF-120J contains no slip and high antiblock. LDF-120J complies with FDA regulation 21CFR 177.1520(c)3.1a and with most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Additive	High caking resistance		
Features	Low density High caking resistance Impact resistance, high Workability, good Good melt strength Compliance of Food Exposure		
Uses	Films Lining Mixing Agricultural application Shrinkable film		
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/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	38	µm	
secant modulus			ASTM D882
1% secant, MD: 38 µm, blown film	197	MPa	ASTM D882
1% secant, TD: 38 µm, blown film	254	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 38 µm, blown film	10.7	MPa	ASTM D882
TD: Yield, 38 µm, blown film	10.3	MPa	ASTM D882
MD: Broken, 38 µm, blown film	29.0	MPa	ASTM D882
TD: Broken, 38 µm, blown film	24.1	MPa	ASTM D882

Tensile Elongation			ASTM D882
MD: Broken, 38 µm, blown film	150	%	ASTM D882
TD: Broken, 38 µm, blown film	550	%	ASTM D882
Dart Drop Impact [1] (38 µm, Blown Film)	140	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD: 38 µm, blown film	300	g	ASTM D1922
TD: 38 µm, blown film	70	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 38.1 µm, Blown Film)	50		ASTM D2457
Haze (38.1 µm, Blown Film)	11	%	ASTM D1003
Additional Information			
Film Specimen:1.5 mils (38 µm) film; melt temperature 390°F; blow-up-ratio 2.5 :1.			
Extrusion	Nominal Value	Unit	
Melt Temperature	199	°C	
NOTE			
1.	F50		

Recommended distributors for this material

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