

CERTENE™ LLMF-118J

Metallocene Linear Low Density Polyethylene
Muehlstein

Message:

LLMF-118J is a certified prime resin designed for production of Blown films needing very good optics, excellent film strength and heat seal performance. LLMF-118J applications include heavy duty packaging, ice bags and sealant layer in coextrusions. LLMF-118J contains no slip, high antiblock and process aid. LLMF-118J complies with FDA regulation 21CFR 177.1520(c)3.2a, conditions of use B-H.

General Information	
Additive	High caking resistance
	Processing aid
Features	High caking resistance
	Optical
	Good strength
	Good heat sealability
	Compliance of Food Exposure
Uses	Packaging
	Films
	Bags
	Optical applications
Agency Ratings	FDA 21 CFR 177.1520(c) 3.2a 1
Forms	Particle
Processing Method	Blow film
	Co-extrusion molding

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	
secant modulus			ASTM D882
1% secant, MD: 25 µm	175	MPa	ASTM D882
1% secant, TD: 25 µm	191	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm	10.7	MPa	ASTM D882
TD: Yield, 25 µm	9.65	MPa	ASTM D882
MD: Break, 25 µm	58.6	MPa	ASTM D882

TD: Break, 25 µm	51.7	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	450	%	ASTM D882
TD: Break, 25 µm	620	%	ASTM D882
Dart Drop Impact ¹ (25 µm)	760	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	230	g	ASTM D1922
TD : 25 µm	500	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (60°, 25.4 µm, Blown Film)	93		ASTM D2457
Haze (25.4 µm, Blown Film)	11	%	ASTM D1003
Additional Information			
Film Specimen: 1.0 mils (25 µm) film; blow-up-ratio 2.5 :1; Melt temperature 400°F			
Extrusion	Nominal Value	Unit	
Melt Temperature	204	°C	
NOTE			
1.	F50		

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