

CERTENE™ LLMF-116A

Metallocene Linear Low Density Polyethylene
Muehlstein

Message:

LLMF-116A is a certified prime resin designed for production of Blown films needing excellent optics, superior film strength and excellent heat seal performance. LLMF-116A applications include heavy duty packaging, ice bags and sealant layer in coextrusions. LLMF-116A contains no slip, no antiblock and does contain process aid. LLMF-116A complies with FDA regulation 21CFR 177.1520(c)3.2a, conditions of use B-H.

General Information	
Additive	Processing aid
Features	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	0.916	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.4	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	165	MPa	ASTM D882
1% secant, TD: 25 µm	179	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm	13.6	MPa	ASTM D882
TD: Yield, 25 µm	10.3	MPa	ASTM D882
MD: Break, 25 µm	52.4	MPa	ASTM D882
TD: Break, 25 µm	51.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	480	%	ASTM D882

TD: Break, 25 µm	590	%	ASTM D882
Dart Drop Impact ¹ (25 µm)	1100	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)	130		ASTM D2457
Haze (25.4 µm, Blown Film)	4.0	%	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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