

# CERTENE™ LLHF-118A

Linear Low Density Polyethylene

Muehlstein

## Message:

LLHF-118A is a certified prime resin with Hexene-comonomer, designed for production of Blown films used in general purpose packaging. LLHF-118A features an excellent combination of easy processability, very good film strength and a broad heat sealing temperature range. LLHF-118A applications include shipping sacks, ice bags, stretch film and liners. LLHF-118A contains no slip or no antiblock. LLHF-118A complies with FDA regulation 21CFR 177.1520(c)3.1a (conditions of use C-H) and with most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Features	Low density High strength hexene comonomer Workability, good Good heat sealability Compliance of Food Exposure		
Uses	Packaging Films Lining Bags		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.918	g/cm <sup>3</sup>	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	197	MPa	ASTM D882
1% secant, TD: 25 µm	234	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 25 µm	8.96	MPa	ASTM D882
TD: Yield, 25 µm	9.65	MPa	ASTM D882
MD: Break, 25 µm	33.1	MPa	ASTM D882
TD: Break, 25 µm	24.1	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	520	%	ASTM D882

TD: Break, 25 $\mu$ m	800	%	ASTM D882
Dart Drop Impact <sup>1</sup> (25 $\mu$ m)	160	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 $\mu$ m	400	g	ASTM D1922
TD : 25 $\mu$ m	630	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.4 $\mu$ m)	55		ASTM D2457
Haze (25.4 $\mu$ m)	14	%	ASTM D1003
<b>Additional Information</b>			
Film Specimen: 1.0 mils (25 $\mu$ m) film; blow-up-ratio 2.5 :1.			
<b>NOTE</b>			
1.	F50		

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