

# CERTENE™ LLHC-318A

Linear Low Density Polyethylene  
Muehlstein

Message:

LLHC-318A is a certified prime, Ethylene-Hexene Copolymer developed for extrusion of Cast Films needing a combination of excellent processability and very good stiffness and toughness. LLHC-318A applications include general purpose cast films, stretch wrap and packaging films. LLHC-318A contains No slip and No antiblock. LLHC-318A complies with FDA regulation 21CFR 177.1520(c) 3.1a, (except for articles used for the packing or holding of food during cooking).

General Information			
Features	Rigid, good		
	Copolymer		
	Workability, good		
	Good toughness		
	Compliance of Food Exposure		
Uses	Packaging		
	Films		
	Stretch winding		
Agency Ratings	FDA 21 CFR 177.1520(c) 3.1a		
Forms	Particle		
Processing Method	cast 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)	3.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	20	µm	
secant modulus			ASTM D882
1% secant, MD: 20 µm	114	MPa	ASTM D882
1% secant, TD: 20 µm	124	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 20 µm	8.14	MPa	ASTM D882
TD: Yield, 20 µm	7.58	MPa	ASTM D882
MD: Break, 20 µm	65.2	MPa	ASTM D882
TD: Break, 20 µm	38.6	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 20 µm	550	%	ASTM D882
TD: Break, 20 µm	800	%	ASTM D882
Dart Drop Impact (20 µm)	80	g	ASTM D1709

Elmendorf Tear Strength			ASTM D1922
MD : 20 $\mu$ m	200	g	ASTM D1922
TD : 20 $\mu$ m	700	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Haze (20.3 $\mu$ m)	2.0	%	ASTM D1003
Additional Information			

Film Specimen: 0.8 mil (20  $\mu$ m) cast film; melt temperature 550°F

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#### Recommended distributors for this material

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