

CERTENE™ LLGF-220A

Linear Low Density Polyethylene
Muehlstein

Message:

LLGF-220A is a certified prime, ethylene-octene copolymer designed for production of Cast films needing excellent optics and superior film strength. LLGF-220A applications include stretch wrap, coex and lamination films. LLGF-220A contains no slip and no antiblock. LLGF-220A complies with FDA regulation 21CFR 177.1520(c)3.2a, conditions of use B-H per 21CFR 176.170(c), Table 2.

General Information			
Features	High strength		
	Copolymer		
	Optical		
	Compliance of Food Exposure		
	Octene comonomer		
Uses	Films		
	Laminate		
	Stretch winding		
	cast film		
	Food packaging		
Agency Ratings	FDA 21 CFR 176.170(c), Table 2 Conditions of use B- H		
	FDA 21 CFR 177.1520(c) 3.2a		
Forms	Particle		
Processing Method	Co-extrusion molding		
	cast film		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.3	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	138	MPa	ASTM D882
1% secant, TD: 20 µm	159	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 20 µm	8.00	MPa	ASTM D882
TD: Yield, 20 µm	7.50	MPa	ASTM D882
MD: Break, 20 µm	32.0	MPa	ASTM D882

TD: Break, 20 μm	24.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 20 μm	430	%	ASTM D882
TD: Break, 20 μm	750	%	ASTM D882
Dart Drop Impact (20 μm)	190	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 20 μm	280	g	ASTM D1922
TD : 20 μm	650	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 20.0 μm, Cast Film)	85		ASTM D2457
Haze (20.0 μm, Cast Film)	2.0	%	ASTM D1003
Additional Information			

Film Specimen: 0.8 mils (20 μm) cast film; melt temperature of 500°F

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