CERTENE™ LLHC-217A

Linear Low Density Polyethylene

Muehlstein

Message:

LLHC-217A is a certified prime grade Ethylene-Hexene copolymer for CAST Flat-Die extrusion of film applications requiring excellent clarity, high strength, toughness, low stiffness, and good tensile properties. LLHC-217A major applications include Stretch films, Diaper films and Bread films. LLHC-217A contains no slip and no antiblock. LLHC-217A complies with FDA regulation 21CFR 177.1520(c) 3.1a, and with most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Features	High tensile strength High strength Copolymer Definition, high Good toughness Compliance of Food Exposure		
Uses	Packaging Films Bags		
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/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	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	150	MPa	ASTM D882
1% secant, TD: 20 µm	170	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 20 µm	9.65	MPa	ASTM D882
TD: Yield, 20 µm	10.3	MPa	ASTM D882
MD: Break, 20 µm	38.6	MPa	ASTM D882
TD: Break, 20 µm	30.3	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 20 µm	500	%	ASTM D882
TD: Break, 20 µm	800	%	ASTM D882

Dart Drop Impact [1] (20 µm)	95	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 20 µm	280	g	ASTM D1922
TD : 20 µm	450	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 20.3 µm)	90		ASTM D2457
Haze (20.3 µm)	2.0	%	ASTM D1003
Additional Information			
Film Specimen: 0.8 mils (20 µm) film; melt temperature 540-560°F (280-295°C); cast line speed 800 fpm (245 mpm).			
NOTE			
1.	F50		

Recommended distributors for this material

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