

# CERTENE™ LDF-622A

Low Density Polyethylene

Muehlstein

## Message:

LDF-622A is a certified prime grade specially designed for BLOWN FILM and INJECTION MOLDING. LDF-622A features easy processability, good stiffness, toughness and draw-down. LDF-622A blown films exhibit good mechanical properties, resistance to pin holing and excellent heat seal performance. Applications include general purpose film, garment and produce bags as well as caps, closures and overcaps. Maximum recommended film drawdown is 0.5 mil. LDF-622A contains no slip and no antiblock, and complies with FDA regulation CFR 177.1520 (c) 2.2 and with most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Features	Low density		
	Rigid, good		
	Workability, good		
	Good stripping		
	Good heat sealability		
	Good toughness		
	Compliance of Food Exposure		
Uses	Films		
	Bags		
	Shield		
	Food packaging		
	Shell		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.2		
Forms	Particle		
Processing Method	Blow film		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	6.5	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>			ASTM D638
Yield <sup>2</sup>	7.00	MPa	ASTM D638
Fracture	8.00	MPa	ASTM D638
Flexural Modulus - 2% Secant <sup>3</sup>	232	MPa	ASTM D790
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Tensile Strength			ASTM D882

MD: Break, 25 µm	18.0	MPa	ASTM D882
TD: Break, 25 µm	18.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Break, 25 µm	330	%	ASTM D882
TD: Break, 25 µm	600	%	ASTM D882
Dart Drop Impact <sup>4</sup> (25 µm)	60	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 25 µm	350	g	ASTM D1922
TD : 25 µm	120	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature <sup>5</sup>	-60.0	°C	ASTM D746
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.0 µm, Blown Film)	75		ASTM D2457
Haze (25.0 µm, Blown Film)	5.5	%	ASTM D1003

#### Additional Information

Film Specimen: 1.0 mils (25 µm) film, Melt temperature 300-340°F (160-175°C), blow-up-ratio 2.5 :1.

#### NOTE

1. Test specimens from compression molded plaque according to ASTM D 1928 Procedure C.
2. 50 mm/min
3. Test specimens from compression molded plaque according to ASTM D 1928 Procedure C.
4. F50
5. Test specimens from compression molded plaque according to ASTM D 1928 Procedure C.

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