

CERTENE™ LDF-422C

Low Density Polyethylene
Muehlstein

Message:

LDF-422C is a certified prime resin developed for EXTRUSION of good clarity Blown Film for packaging of articles requiring good opticals such as baked products, sandwich bags, light duty produce bags, toilet paper and textiles. LDF-422C features easy processability, and optimal balance of film strength, stiffness, good openability and excellent sealability. Maximum recommended film drawdown is 1.0 mil. LDF-422C contains medium slip and medium antiblock. LDF-422C complies with FDA regulation 21CFR 177.1520 (c) 2.2 and most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Additive	Moderate caking resistance		
	Moderate smoothness		
Features	Low density		
	Rigid, good		
	Optical		
	Workability, good		
	Good strength		
	Definition, high		
	Compliance of Food Exposure		
	Moderate caking resistance		
	Moderate smoothness		
Uses	Films		
	Bags		
	Textile applications		
	Food packaging		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.2		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	32	µm	ASTM D882
secant modulus			
1% secant, MD: 32 µm	186	MPa	
1% secant, TD: 32 µm	228	MPa	ASTM D882
Tensile Strength			ASTM D882

MD: Yield, 32 μm	10.0	MPa	ASTM D882
TD: Yield, 32 μm	12.0	MPa	ASTM D882
MD: Broken, 32 μm	24.0	MPa	ASTM D882
TD: Broken, 32 μm	17.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Broken, 32 μm	360	%	ASTM D882
TD: Broken, 32 μm	700	%	ASTM D882
Dart Drop Impact ¹ (32 μm)	80	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 32 μm	560	g	ASTM D1922
TD : 32 μm	160	g	ASTM D1922
Thermal	Nominal Value	Unit	
Melting Temperature	111	°C	
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 31.8 μm, Blown Film)	70		ASTM D2457
Haze (31.8 μm, Blown Film)	6.0	%	ASTM D1003
Additional Information			
Film Specimen: 1.25 mils (31 μm) film, melt temperature 350-370°F (175-185°C), blow-up-ratio 2.5:1.			
NOTE			
1.	F50		

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