CERTENE™ LDF-322C

Low Density Polyethylene

Muehlstein

Message:

LDF-322C 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-322C features easy processability, and optimal balance of film strength, stiffness, good openability and excellent sealability. Maximum recommended film drawdown is 1.0 mil. LDF-322C contains medium slip and medium antiblock. LDF-322C 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/cm³	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	32	µm	
secant modulus			ASTM D882
1% secant, MD: 32 µm	186	MPa	ASTM D882
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		

Recommended distributors for this material

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