

CERTENE™ LDF-0522P

Low Density Polyethylene
Muehlstein

Message:

LDF-0522P is a certified Blown Film prime grade designed for heavy-duty packaging and industrial applications requiring excellent mechanical properties, such as heavy-duty shipping sacks, pallet shrink, construction, agriculture and liners. LDF-0522P features excellent processability and films exhibit high toughness, high impact and tear strength, and excellent shrink properties. LDF-0522P contains very high antiblock, no UV stabilizer and no slip. LDF-0522P 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	High caking resistance		
Features	Low density		
	High caking resistance		
	Workability, good		
	Good tear strength		
	Good toughness		
	Compliance of Food Exposure		
Uses	Packaging		
	Films		
	Lining		
	Industrial application		
	Architectural application field		
	Agricultural application		
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)	0.50	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	51	µm	
secant modulus			ASTM D882
1% secant, MD: 51 µm	186	MPa	ASTM D882
1% secant, TD: 51 µm	205	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 51 µm	12.0	MPa	ASTM D882
TD: Yield, 51 µm	12.0	MPa	ASTM D882
MD: Fracture, 51 µm	31.0	MPa	ASTM D882

TD: Fracture, 51 μm	20.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 51 μm	200	%	ASTM D882
TD: Fracture, 51 μm	300	%	ASTM D882
Dart Drop Impact ¹ (51 μm)	170	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 51 μm	140	g	ASTM D1922
TD : 51 μm	130	g	ASTM D1922
Additional Information			
Film Specimen: 2.0 mils (51 μm) film, melt temperature 380-430°F (195-220°C), blow-up-ratio 2.0 :1.			
NOTE			
1.	F50		

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