

# CERTENE™ LDF-0220B

Low Density Polyethylene

Muehlstein

## Message:

LDF-0220B is a certified prime resin specially designed for production of heavy duty Blown films for industrial applications requiring excellent mechanical properties, such as heavy duty sacks, shipping bags, shrink wrapped pallet hoods, construction, agriculture and greenhouses. LDF-0220B features easy processability and films exhibit high toughness, high impact and tear strength, and excellent shrinkage properties. Minimum recommended film thickness is 2.5 mils. LDF-0220B contains no slip and medium antiblock.

General Information			
Additive	Moderate caking resistance		
Features	Ultra high toughness		
	Low density		
	Industrial resin		
	Impact resistance, high		
	Workability, good		
	Good tear strength		
	High shrinkage		
Uses	Moderate caking resistance		
	Films		
	Bags		
	Architectural application field		
	Agricultural application		
	Shrinkable film		
	Heavy packing bag		
Forms	Particle		
Processing Method	Blow film		
Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.25	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	173	MPa	ASTM D882
1% secant, TD: 51 µm	207	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 51 µm	13.0	MPa	ASTM D882
TD: Yield, 51 µm	13.0	MPa	ASTM D882

MD: Fracture, 51 $\mu\text{m}$	32.0	MPa	ASTM D882
TD: Fracture, 51 $\mu\text{m}$	20.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 51 $\mu\text{m}$	200	%	ASTM D882
TD: Fracture, 51 $\mu\text{m}$	600	%	ASTM D882
Dart Drop Impact (51 $\mu\text{m}$ )	260	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 51 $\mu\text{m}$	600	g	ASTM D1922
TD : 51 $\mu\text{m}$	150	g	ASTM D1922

#### Additional Information

This Specimen was compression molded and was tested according to ASTM D1928 Procedure C.

Extrusion	Nominal Value	Unit
Melt Temperature	195 - 220	$^{\circ}\text{C}$

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#### Recommended distributors for this material

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