CERTENE™ LDF-0218A

Low Density Polyethylene

Muehlstein

Message:

LDF-0218A is a certified prime grade specially designed for EXTRUSION of heavy duty Blown Film for industrial applications requiring excellent mechanical properties, such as heavy duty sacks, shipping bags, shrink wrapping pallet hoods, construction, agriculture and greenhouses. LDF-0218A features excellent processability and films exhibit high toughness, high impact and tear strength, and excellent shrink properties. LDF-0218A contains no antiblock, no UV stabilizer and no slip. LDF-0218A complies with FDA regulation 21CFR 177.1520 (c) 2.1 + 2.2 and most international regulations concerning the use of Polyethylene in contact with food articles.

General Information			
Features	Ultra high toughness Low density Industrial resin Impact resistance, high Workability, good Good tear strength High shrinkage		
Uses	Films Bags Architectural application field Agricultural application Shrinkable film Heavy packing bag		
Agency Ratings	FDA 21 CFR 177.1520(c) 2.1 FDA 21 CFR 177.1520(c) 2.2		
Forms	Particle		
Processing Method	Blow film		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.918	g/cm³	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	172	MPa	ASTM D882
1% secant, TD: 51 µm	207	MPa	ASTM D882
Tensile Strength			ASTM D882
MD: Yield, 51 µm	10.3	MPa	ASTM D882

TD: Yield, 51 µm	9.65	MPa	ASTM D882
MD: Fracture, 51 µm	24.8	MPa	ASTM D882
TD: Fracture, 51 µm	24.1	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 51 µm	130	%	ASTM D882
TD: Fracture, 51 µm	600	%	ASTM D882
Dart Drop Impact (51 µm)	180	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 51 µm	320	g	ASTM D1922
TD : 51 µm	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	193 - 221	°C

Recommended distributors for this material

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