CERTENE™ LDF-221D

Low Density Polyethylene

Muehlstein

Message:

LDF-221D is a certified prime resin developed for EXTRUSION Blown Film for industrial packaging, liners, blend with LLDPE. LDF-221D features easy processability, and optimal balance of film strength, stiffness, good openability and excellent sealability. Maximum recommended film drawdown is 1.0 mil. LDF-221D contains medium slip and high antiblock. LDF-221D 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	
Additive	High caking resistance Moderate smoothness
Features	Low density Rigid, good High caking resistance Workability, good Good strength Compliance of Food Exposure Moderate smoothness
Uses	Packaging Films Lining Mixing
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	0.920	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238

Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	38	µm	
secant modulus			ASTM D882
1% secant, MD: 38 µm	175	MPa	ASTM D882
1% secant, TD: 38 µm	205	MPa	ASTM D882
Tensile Strength			ASTM D882

MD: Yield, 38 µm	10.0	MPa	ASTM D882
TD: Yield, 38 µm	10.0	MPa	ASTM D882
MD: Fracture, 38 µm	25.0	MPa	ASTM D882
TD: Fracture, 38 µm	19.0	MPa	ASTM D882
Tensile Elongation			ASTM D882
MD: Fracture, 38 µm	300	%	ASTM D882
TD: Fracture, 38 µm	600	%	ASTM D882
Dart Drop Impact (38 µm)	150	g	ASTM D1709A
Elmendorf Tear Strength			ASTM D1922
MD : 38 µm	180	g	ASTM D1922
TD : 38 µm	130	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	111	°C	ASTM D3418
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 38.0 µm)	50		ASTM D2457
Haze (38.0 µm)	11	%	ASTM D1003
Additional Information			

Film Specimen: 1.5 mils (38 µm) film, melt temperature 338-374°F (170-190°C), blow-up-ratio 2.5:1.

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