



CERTENE™ LLBF-122F

Muehlstein - Linear Low Density Polyethylene

Wednesday, October 19, 2022

General Information

Product Description

LLBF-122F is a certified prime resin Butene-comonomer, specially designed for production of high performance Blown films for general purpose packaging. LLBF-122F features excellent combination of easy processability with very good film strength as well as wide heat sealing temperature range. LLBF-122F major applications include garment bags, produce bags and liners. Maximum recommended film drawdown is 0.5 mil. LLBF-122F contains high slip and high antiblock. LLBF-122F complies with FDA regulation 21CFR 177.1520 (c) 3.1 (a) and with most international regulations concerning the use of Polyethylene in contact with food articles.

General

Material Status	• Commercial: Active		
Availability	• Latin America		
Additive	• High Antiblock	• High Slip	
Features	• Broad Seal Range • Butene Comonomer • Food Contact Acceptable	• Good Processability • Good Strength • High Antiblocking	• High Slip
Uses	• Bags • Film	• Laundry Bags • Liners	• Packaging
Agency Ratings	• FDA 21 CFR 177.1520(c) 3.1a		
Forms	• Pellets		
Processing Method	• Blown Film		

ASTM & ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	0.920	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	1.0	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	25	µm	
Secant Modulus - 1% Secant, MD	214	MPa	ASTM D882
Secant Modulus - 1% Secant, TD	248	MPa	ASTM D882
Tensile Strength - MD (Yield)	11.0	MPa	ASTM D882
Tensile Strength - TD (Yield)	11.0	MPa	ASTM D882
Tensile Strength - MD (Break)	44.8	MPa	ASTM D882
Tensile Strength - TD (Break)	29.6	MPa	ASTM D882
Tensile Elongation - MD (Break)	650	%	ASTM D882
Tensile Elongation - TD (Break)	990	%	ASTM D882
Dart Drop Impact ²	85	g	ASTM D1709A
Elmendorf Tear Strength - MD	80	g	ASTM D1922
Elmendorf Tear Strength - TD	550	g	ASTM D1922
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	121	°C	ASTM D3418
Optical	Nominal Value	Unit	Test Method
Gloss (45°)	65		ASTM D2457
Haze	7.50	%	ASTM D1003

Additional Information

Film Specimen: 1.0 mils (25 µm) film, melt temperature 395-430°F (200-220°C), blow-up-ratio 2.5 :1.

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Notes

¹ Typical properties: these are not to be construed as specifications.

² F50