

CERTENE™ LLBF-118A

Muehlstein - Linear Low Density Polyethylene

Tuesday, August 16, 2022

General Information

Product Description

LLBF-118A is a certified prime resin with Butene-comonomer, designed for production of Blown films used in general purpose packaging. LLBF-118A features excellent combination of easy processability with good film strength as well as wide heat sealing temperature range. LLBF-118A applications include garment bags, produce bas and liners. LLBF-118A contains NO slip and NO antiblock. LLBF-118A complies with FDA regulation 21CFR 177.1520(c)3.2a, conditions of use A-H per 21CFR 176.170(c), Table 2.

General

Material Status	• Commercial: Active
Availability	• Latin America • North America
Features	• Butene Comonomer • General Purpose • Good Processability • Food Contact Acceptable • Good Heat Seal
Uses	• Bags • General Purpose • Packaging • Film • Liners
Agency Ratings	• FDA 21 CFR 176.170(c), Table 2 Conditions of use A-H • FDA 21 CFR 177.1520(c) 3.2a
Forms	• Pellets
Processing Method	• Blown Film

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.918	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 (25 µm)	221	MPa	ASTM D882
Secant Modulus - 1% Secant, TD (25 µm)	248	MPa	ASTM D882
Tensile Strength - MD (Yield, 25 µm)	10.3	MPa	ASTM D882
Tensile Strength - TD (Yield, 25 µm)	11.0	MPa	ASTM D882
Tensile Strength - MD (Break, 25 µm)	36.5	MPa	ASTM D882
Tensile Strength - TD (Break, 25 µm)	27.6	MPa	ASTM D882
Tensile Elongation - MD (Break, 25 µm)	550	%	ASTM D882
Tensile Elongation - TD (Break, 25 µm)	700	%	ASTM D882
Dart Drop Impact ² (25 µm)	90	g	ASTM D1709A
Elmendorf Tear Strength - MD (25 µm)	150	g	ASTM D1922
Elmendorf Tear Strength - TD (25 µm)	300	g	ASTM D1922
Optical	Nominal Value	Unit	Test Method
Gloss (45°, 25.4 µm, Blown Film)	35		ASTM D2457
Haze (25.4 µm, Blown Film)	18.0	%	ASTM D1003

Additional Information

1.0 mil (25 µm) film; melt temperature 410-415°F; blow-up-ratio 2.5 :1.

Notes

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

² F50