



Wednesday, May 04, 2011

CERTENE™ LDF-221C

Muehlstein - Low Density Polyethylene

Units English

Action

Legend [\(Open\)](#)


General Information

Product Description

LDF-221C is a certified prime resin specially designed to meet the requirements of most 1 to 3 mils thickness Blown film liner applications. LDF-221C features easy processability. Large lot size and superior lot-to-lot uniformity ensure consistent film production. Minimum recommended film thickness is 1.0 mil. LDF-221C contains medium slip and medium antiblock.

General

Material Status	● Commercial: Active
Availability	● North America
Additive	● Medium Antiblock ● Medium Slip
Features	● Good Processability ● Medium Antiblocking ● Low Density ● Medium Slip
Uses	● Film ● Liners
Forms	● Pellets
Processing Method	● Blown Film

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.921	g/cm ³	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	1.5	mil	
Secant Modulus - 1% Secant, MD (1.5 mil)	25400	psi	ASTM D882
Secant Modulus - 1% Secant, TD (1.5 mil)	29700	psi	ASTM D882
Tensile Strength - MD (Yield, 1.5 mil)	1450	psi	ASTM D882
Tensile Strength - TD (Yield, 1.5 mil)	1450	psi	ASTM D882
Tensile Strength - MD (Break, 1.5 mil)	3630	psi	ASTM D882
Tensile Strength - TD (Break, 1.5 mil)	2760	psi	ASTM D882
Tensile Elongation - MD (Break, 1.5 mil)	350	%	ASTM D882
Tensile Elongation - TD (Break, 1.5 mil)	600	%	ASTM D882
Dart Drop Impact (1.5 mil)	85	g	ASTM D1709A
Elmendorf Tear Strength - MD (1.5 mil)	580	g	ASTM D1922
Elmendorf Tear Strength - TD (1.5 mil)	120	g	ASTM D1922

Additional Information

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

Processing Information

Extrusion	Nominal Value	Unit
Melt Temperature	320 to 374	°F

Notes

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

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