



Formolene FORMAX® L91507E2

Formosa Plastics Corporation, U.S.A. - Linear Low Density Polyethylene

Tuesday, November 5, 2019

General Information

Product Description

Formolene FORMAX® L9 is a high strength linear low density polyethylene. Film mechanical properties are significantly improved compared to competitive super hexene LLDPE film resins.

Formolene FORMAX® L9 is formulated with slip and antiblock for use in high performance film applications offering excellent extrusion processing and outstanding impact strength and tear resistance. Films exhibit superior sealing characteristics and good optical properties.

Formolene FORMAX® L9 meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact.

Suggested Applications:

- Industrial Packaging
- Industrial Liners
- Food Packaging
- Can Liners
- Consumer Trash Bags
- Coextrusion

General

Material Status	• Commercial: Active
Availability	• North America
Additive	• High Antiblock: 7000 ppm ¹ • High Slip: 1500 ppm ¹
Features	• Food Contact Acceptable • Good Impact Resistance • Good Optical Properties • Good Tear Strength • High Antiblocking • High Slip • High Strength
Uses	• Bags • Food Packaging • Industrial Applications • Liners • Packaging
Agency Ratings	• EC 1907/2006 (REACH) • FDA 21 CFR 177.1520
Forms	• Pellets
Processing Method	• Coextrusion • Film Extrusion

ASTM & ISO Properties²

Physical	Nominal Value	Unit	Test Method
Density	0.916	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (190°C/2.16 kg)	0.80	g/10 min	ASTM D1238
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	1	mil	
Tensile Strength - MD (Yield, 0.98 mil, Blown Film)	1530	psi	ASTM D882
Tensile Strength - TD (Yield, 0.98 mil, Blown Film)	1530	psi	ASTM D882
Tensile Strength - MD (Break, 0.98 mil, Blown Film)	5700	psi	ASTM D882
Tensile Strength - TD (Break, 0.98 mil, Blown Film)	5000	psi	ASTM D882
Tensile Elongation - MD (Break, 0.98 mil, Blown Film)	670	%	ASTM D882
Tensile Elongation - TD (Break, 0.98 mil, Blown Film)	880	%	ASTM D882
Dart Drop Impact (0.98 mil, Blown Film)	520	g	ASTM D1709
Elmendorf Tear Strength - MD (0.98 mil, Blown Film)	480	g	ASTM D1922
Elmendorf Tear Strength - TD (0.98 mil, Blown Film)	650	g	ASTM D1922

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Films	Nominal Value	Unit	Test Method
Seal Initiation Temperature (2.0 mil)	212	°F	

Notes

¹ talc based

² Typical properties: these are not to be construed as specifications.