Formolene® L42022E2

Wednesday, March 9, 2022

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

General Information

Product Description

Formolene® L42022E2 is a general-purpose film grade linear low density made using gas-phase technology. Formolene® L42022E2 exhibits excellent toughness and strength when drawn down to thin gauges in blown and cast film applications.

Formolene® L42022E2 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.

General		
Material Status	• Commercial: Active	
Availability	• North America	
Additive	• Antiblock: 7000 ppm [1]	• Slip: 1350 ppm [1]
Features	• General Purpose • High Strength	• Low Density • Ultra High Toughness
Uses	• Bags • General Purpose	• Liners • Packaging
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520
Processing Method	• Blow Molding • Casting	• Coextrusion • Film Extrusion

ASTM & ISO Properties [2]

Physical	Nominal Value	Unit	Test Method
Density	0.919	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	1	mil	
Tensile Strength - MD (Break, 0.98 mil, Blown Film)	3900	psi	ASTM D882
Tensile Strength - TD (Break, 0.98 mil, Blown Film)	2700	psi	ASTM D882
Tensile Elongation - MD (Break, 0.98 mil, Blown Film)	600	%	ASTM D882
Tensile Elongation - TD (Break, 0.98 mil, Blown Film)	800	%	ASTM D882
Dart Drop Impact (0.98 mil, Blown Film)	65	g	ASTM D1709
Elmendorf Tear Strength - MD (0.98 mil, Blown Film)	110	g	ASTM D1922
Elmendorf Tear Strength - TD (0.98 mil, Blown Film)	570	g	ASTM D1922
Optical	**Nominal Value**	**Unit**	**Test Method**
Gloss (45°, 0.984 mil, Blown Film)	40		ASTM D523
Haze (0.984 mil, Blown Film)	35.0	%	ASTM D1003

Notes

[1] Additives talc based

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