Manufacturer website: https://www.fpcusa.com/

Formosa Plastics®

Formolene® HDPE

Formolene® E927

High Density Polyethylene High Molecular Weight (HDPE-HMW) Bimodal Resin Designed For Thin Gauge Film Extrusion Applications

Formolene® E927 is a high molecular weight grade of HDPE designed for high drawdown to produce thin films with good processing and physical properties. Formolene® E927 is well balanced in overall physical properties and provides good stiffness for thin gauge film applications.

Formolene® E927 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:

T-Shirt Bags
Trash Can Liners and Heavy Duty Bags
Multi-Wall Bag Liners
Merchandise Bags

Nominal Physical Properties:

PROPERTY	ASTM TEST METHOD	UNIT	VALUE
Typical Resin Properties for E927:			
Melt Index	D1238	g/10 min.	0.07
HLMI	D1238	g/10 min.	12.0
Density	D1505	g/cm^3	0.949
Melting Point	DSC	°C	131.0
***Typical E927 Film Properties*:**			
Dart Drop Impact Strength	D1709	g/mil	370
Elmendorf Tear Strength	D1922	g/mil	16/190*
Tensile Strength at Break	D882	psi.	9,300/6,700*
Tensile Elongation at Break	D882	%	310/540*
1% Secant Modulus	D882	psi.	74,000/132,000*

* MD / TD

Note: Film properties are not intended to be used as specifications. They represent 0.50 mil film produced in laboratory conditions at a blow-up ratio of 4.0:1 and a stalk height of 8 times the die diameter. Output: 14.5 Lbs/Hr./In. Die Circumference.

Published 02/01/12, Revised 11/10/16

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