


Formosa Plastics®
Formolene® HDPE

Formolene® E924

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

Formolene® E924 is a high molecular weight grade of HDPE designed for high drawdown to produce thin films with good processing and physical properties. Formolene® E924 is well balanced in overall physical properties and provides good stiffness for thin gauge film applications.

Formolene® E924 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 E924:			
Melt Index	D1238	g/10 min.	0.04
HLMI	D1238	g/10 min.	8.50
Density	D1505	g/cm ³	0.949
Melting Point	DSC	°C	131.0
Typical E924 Film Properties:			
Dart Drop Impact Strength	D1709	g/mil	590
Elmendorf Tear Strength	D1922	g/mil	17/210*
Tensile Strength at Break	D882	psi.	9,800/7,000*
Tensile Elongation at Break	D882	%	290/480*
1% Secant Modulus	D882	psi.	74,000/128,000*

* 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

Any inquiries regarding this data sheet should be addressed to: 9 Peach Tree Hill Road • Livingston, NJ 07039 • Phone: (888) FPCUSA3 • Fax: (973) 422-7772

The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions concerning uses or applications are only the opinion of FORMOSA PLASTICS CORPORATION, U.S.A. and users should perform their own tests to determine the suitability of these products for their own particular purposes. However, because of numerous factors affecting the results, FORMOSA PLASTICS CORPORATION, U.S.A. MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, other than that the material conforms to the applicable current Standard Specifications Statements herein, therefore, should not be construed as representations or warranties. The responsibility of FORMOSA PLASTICS CORPORATION, U.S.A. for claims arising out of breach of warranty, negligence, strict liability or otherwise is limited to the purchase price of the material. Statements concerning the use of the products of formulations described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is assumed.

© Formosa Plastics Corporation, U.S.A.

Formolene® is a registered trademark of FPC USA