


**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<br>TEST<br>METHOD | UNIT              | VALUE           |
|-------------------------------------------|------------------------|-------------------|-----------------|
| <b>Typical Resin Properties for E927:</b> |                        |                   |                 |
| Melt Index                                | D1238                  | g/10 min.         | 0.07            |
| HLMI                                      | D1238                  | g/10 min.         | 12.0            |
| Density                                   | D1505                  | g/cm <sup>3</sup> | 0.949           |
| Melting Point                             | DSC                    | °C                | 131.0           |
| <b>Typical E927 Film Properties:</b>      |                        |                   |                 |
| 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.

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