



**Formosa Plastics®**

**Formolene® HDPE**

## Formolene® E924

*High Molecular Weight High Density Polyethylene  
(HMW-HDPE) for Film Extrusion*

Formolene® E924 is a bi-modal HMW-HDPE resin designed for high dart impact strength and good processing characteristics. 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     | Industrial Liners |
| Trash Can Liners | Heavy Duty Bags   |

### Nominal Physical Properties:

| PROPERTY**                      | ASTM<br>TEST<br>METHOD | UNIT      | VALUE        |
|---------------------------------|------------------------|-----------|--------------|
| Density                         | D1505                  | g/cc      | 0.949        |
| Melt Index, Condition E,        | D1238                  | g/10 min. | 0.04         |
| Condition E, 190°C/2.16 kg (MI) | D1238                  | g/10 min. | 8.50         |
| Condition F, 190°C/21.6 kg      |                        |           |              |
| (HLMI)                          |                        |           |              |
| Melting Point                   | DSC                    | °C        | 131.0        |
| <b>Typical Film Properties:</b> |                        |           |              |
| Dart Impact                     | D1709                  | g/mil.    | 210          |
| Elmendorf Tear Strength         | D1922                  | g/mil.    | *14/25       |
| Tensile Strength at Break       | D882                   | psi.      | *9,000/4,100 |
| Elongation                      | D882                   | %         | *300/410     |

\* MD / TD

Note: Film Properties based on 0.50 mil film produced in laboratory conditions at a Blow Up Ratio of 4.0 and a stalk height of 5X the die diameter. Actual film properties may vary depending on operating conditions and additive packages. Film properties are not intended to be used as specifications.

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EMS 35710

