

Formolene® E924ND

High Density (HMW) Polyethylene

Formosa Plastics Corporation, U.S.A.

Technical Data

Product Description

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

Formolene® E924ND is a bi-modal HMW-HDPE resin designed for high dart impact strength and good processing characteristics. In addition, this resin has excellent gauge control. Formolene® E924ND is well balanced in overall physical properties and provides good stiffness for thin gauge film applications.

Formolene® E924ND 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		
Literature ¹	• Technical Datasheet (English)		
Search for UL Yellow Card	• Formosa Plastics Corporation, U.S.A. • Formolene®		
Availability	• North America		
Features	• Food Contact Acceptable • Good Gauge Control	• Good Processability • Good Stiffness	• High Impact Resistance • High Molecular Weight
Uses	• Bags • Film	• Heavy-duty Bags • Industrial Applications	• Laundry Bags • Liners
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520	
Forms	• Pellets		
Processing Method	• Film Extrusion		

Physical	Nominal Value Unit	Test Method
Density	0.949 g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR)		ASTM D1238
190°C/2.16 kg ³	0.040 g/10 min	
190°C/21.6 kg ⁴	8.0 g/10 min	

Films	Nominal Value Unit	Test Method
Film Thickness - Tested	13 µm	
Tensile Strength		ASTM D882
MD: Break, 13 µm	60.0 MPa	
TD: Break, 13 µm	31.0 MPa	
Tensile Elongation		ASTM D882
MD: Break, 13 µm	330 %	
TD: Break, 13 µm	460 %	
Dart Drop Impact (13 µm)	300 g	ASTM D1709
Elmendorf Tear Strength		ASTM D1922
MD: 13 µm	18 g	
TD: 13 µm	35 g	

Thermal	Nominal Value Unit	Test Method
Melting Temperature	131 °C	DSC

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

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

³ MI

⁴ HLMI