

Formolene® E922

High Density (MMW) Polyethylene

Formosa Plastics Corporation, U.S.A.

Technical Data

Product Description

Formolene E922 is a medium molecular weight grade of HDPE designed for good processing characteristics and good film stiffness for thin gauge film applications.

Formolene E922 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:

- Shopping Bags
- Trash Can Liners
- Thin Film for Laminate Applications

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 Processability	• Good Stiffness • Medium Molecular Weight
Uses	• Bags • Film	• Laminates • Liners
Agency Ratings	• EC 1907/2006 (REACH)	• FDA 21 CFR 177.1520
Forms	• Pellets	

Physical	Nominal Value Unit	Test Method
Density	0.953 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	0.15 g/10 min	ASTM D1238

Films	Nominal Value Unit	Test Method
Film Thickness - Tested	19 µm	
Tensile Strength		ASTM D882
MD: Break, 19 µm, Blown Film	51.7 MPa	
TD: Break, 19 µm, Blown Film	52.4 MPa	
Tensile Elongation		ASTM D882
MD: Break, 19 µm, Blown Film	390 %	
TD: Break, 19 µm, Blown Film	640 %	
Dart Drop Impact (19 µm, Blown Film)	240 g	ASTM D1709
Elmendorf Tear Strength		ASTM D1922
MD: 19 µm, Blown Film	13 g	
TD: 19 µm, Blown Film	220 g	

Thermal	Nominal Value Unit	Test Method
Melting Temperature	132 °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.