

Formolene® E900

High Density (HMW) Polyethylene
Formosa Plastics Corporation, U.S.A.

Technical Data

Product Description

High Density Polyethylene High Molecular Weight Bi-Modal Resin for Non-Pressure Pipe Extrusion Applications

Formolene® E900 is a high molecular weight high density polyethylene (HMW-HDPE) resin designed for non-pressure pipe applications.

Formolene® E900 is well balanced in overall physical properties and provides good stiffness for extrusion 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	• Good Stiffness	• High Molecular Weight
Uses	• Corrugated Pipe	• Piping
Agency Ratings	• EC 1907/2006 (REACH)	
Forms	• Pellets	
Processing Method	• Extrusion	• Pipe Extrusion

Physical	Nominal Value Unit	Test Method
Density	0.949 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)		ASTM D1238
190°C/2.16 kg	0.040 g/10 min	
190°C/21.6 kg	8.5 g/10 min	
Environmental Stress-Cracking Resistance		
-- ³	400 hr	ASTM F2136
10% Igepal	> 500 hr	ASTM D1693B

Mechanical	Nominal Value Unit	Test Method
Tensile Strength ⁴ (Yield)	24.8 MPa	ASTM D638
Tensile Elongation ⁴ (Break)	> 600 %	ASTM D638

Thermal	Nominal Value Unit	Test Method
Brittleness Temperature	< -118 °C	ASTM D746

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 15% Yield Stress, NCLS

⁴ 50 mm/min