



Formolene® E900

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

Tuesday, November 5, 2019

General Information

Product Description

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
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

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.949	g/cm ³	ASTM D1505
Melt Mass-Flow Rate			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 (ESCR)			
-- ²	400	hr	ASTM F2136
10% Igepal	> 500	hr	ASTM D1693B
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ³ (Yield)	3600	psi	ASTM D638
Tensile Elongation ³ (Break)	> 600	%	ASTM D638
Thermal	Nominal Value	Unit	Test Method
Brittleness Temperature	< -180	°F	ASTM D746

Notes

¹ Typical properties: these are not to be construed as specifications.

² 15% Yield Stress, NCLS

³ 2.0 in/min