

# Formolene® E925

High Density (HMW) Polyethylene

Formosa Plastics Corporation, U.S.A.

## Message:

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

Formolene® E925 is a bi-modal HMW-HDPE resin designed for high dart impact strength and good processing characteristics.

Formolene® E925 is well balanced in overall physical properties and provides good stiffness for thin gauge film applications.

Formolene® E925 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 Information			
Features	Food Contact Acceptable		
	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/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.050	g/10 min	
190°C/21.6 kg	11	g/10 min	
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	13	µm	
Tensile Strength			ASTM D882
MD : Break, 13 µm,Blown Film	62.1	MPa	
TD : Break, 13 µm,Blown Film	28.3	MPa	
Tensile Elongation			ASTM D882
MD : Break, 13 µm,Blown Film	300	%	

TD : Break, 13 µm,Blown Film	410	%	
Elmendorf Tear Strength <sup>1</sup>			ASTM D1922
MD : 12.7 µm	3.9	kN/m	
TD : 12.7 µm	9.7	kN/m	
Dart Impact (12.7 µm) <sup>2</sup>	77.2	kN/m	ASTM D1709
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	131	°C	DSC
NOTE			
1.	Blown Film		
2.	Blown Film		

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