

Formolene® E927

High Density (HMW) Polyethylene

Formosa Plastics Corporation, U.S.A.

Message:

Formolene E927 is a high molecular weight grade of HDPE designed for high drawdown to produce thin films with good processing and physical properties. E927 is well balanced in overall physical properties and provides good stiffness for thin gauge film applications.

Formolene E927 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:

T-Shirt Bags

Trash Can Liner and Heavy Duty Bags

Multi-Wall Bag Liners

Merchandise Bags

General Information			
Features	Food Contact Acceptable		
	Good Drawdown		
	Good Processability		
	Good Stiffness		
	High Molecular Weight		
Uses	Bags		
	Film		
	Heavy-duty Bags		
	Laundry Bags		
	Liners		
Agency Ratings	EC 1907/2006 (REACH)		
	FDA 21 CFR 177.1520		
Forms	Pellets		
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	0.070	g/10 min	
190°C/21.6 kg	12	g/10 min	
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	15	µm	
Secant Modulus			ASTM D882
1% Secant, MD : 15 µm, Blown Film	814	MPa	
1% Secant, TD : 15 µm, Blown Film	1010	MPa	
Tensile Strength			ASTM D882
MD : Break, 15 µm, Blown Film	57.2	MPa	

TD : Break, 15 μm,Blown Film	49.6	MPa	
Tensile Elongation			ASTM D882
MD : Break, 15 μm,Blown Film	280	%	
TD : Break, 15 μm,Blown Film	410	%	
Dart Drop Impact (15 μm, Blown Film)	380	g	ASTM D1709
Elmendorf Tear Strength			ASTM D1922
MD : 15 μm, Blown Film	11	g	
TD : 15 μm, Blown Film	60	g	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	131	°C	DSC

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