

Formolene® E927ND

High Density (HMW) Polyethylene

Formosa Plastics Corporation, U.S.A.

Message:

Formolene® E927ND is a bi-modal HMW-HDPE resin designed for high dart impact strength and good processing characteristics. Formolene® E927ND is well balanced in overall physical properties and provides good stiffness for thin gauge film applications.

Formolene® E927ND 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	Good Processability		
	Good Stiffness		
	High Density		
	High Impact Resistance		
	High Molecular Weight		
Uses	Film		
	Heavy-duty Bags		
	Industrial Applications		
	Laundry Bags		
	Liners		
Agency Ratings	FDA 21 CFR 177.1520		
Processing Method	Film 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	0.070	g/10 min	
190°C/21.6 kg	12	g/10 min	
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	0.60	µm	
Secant Modulus			ASTM D882
MD	517	MPa	
TD	917	MPa	
Tensile Strength			ASTM D882
MD : Break	58.4	MPa	
TD : Break	49.7	MPa	
Tensile Elongation			ASTM D882
MD : Break	450	%	
TD : Break	550	%	
Dart Drop Impact	370	g	ASTM D1709

Elmendorf Tear Strength			ASTM D1922
MD	8.0	g	
TD	79	g	
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	131	°C	DSC
Additional Information	Nominal Value		
Blow-up Ratio	4		

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