

Formosa Plastics Formolene® E927 Film HDPE

Category : Polymer , Film , Thermoplastic , Polyethylene (PE) , HDPE , High Density Polyethylene (HDPE), Film Grade

Material Notes:

High Density Polyethylene High Molecular Weight Bi-Modal Resin For Thin Film Applications Formolene® E927 is a high molecular weight grade of HDPE designed for high drawdown to produce thin films with good processing and physical properties. Formolene® 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. Applications: Multi-Wall Bag Liners, T-Shirt Bags, Merchandise Bags, Trash Can Liner and Heavy Duty Bags Information provided by Formosa Plastics Corporation, USA

Order this product through the following link:

http://www.lookpolymers.com/polymer_Formosa-Plastics-Formolene-E927-Film-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.949 g/cc	0.0343 lb/in ³	ASTM D1505
Thickness	15.2 microns	0.600 mil	
Melt Flow	0.070 g/10 min @Load 2.16 kg, Temperature 190 °C	0.070 g/10 min @Load 4.76 lb, Temperature 374 °F	Condition E; ASTM D1238
High Load Melt Index	12 g/10 min @Load 21.6 kg, Temperature 190 °C	12 g/10 min @Load 47.6 lb, Temperature 374 °F	Condition F; ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	280 %	280 %	ASTM D882
Film Elongation at Break, TD	410 %	410 %	ASTM D882
Elmendorf Tear Strength MD	11 g	11 g	ASTM D1922
Elmendorf Tear Strength TD	60 g	60 g	ASTM D1922
Dart Drop Test	380 g	0.838 lb	ASTM D1709
Film Tensile Strength at Break, MD	57.2 MPa	8300 psi	ASTM D882
Film Tensile Strength at Break, TD	49.6 MPa	7200 psi	ASTM D882
1% Secant Modulus, MD	814 MPa	118000 psi	ASTM D882
1% Secant Modulus, TD	1010 MPa	146000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Processing Properties	Metric	English	Comments
Blow-up Ratio (BUR)	4.0	4.0	

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