Formosa Plastics Formolene® E927ND Film HDPE

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

Material Notes:

High Molecular Weight High Density Polyethylene (HMW-HDPE) for Film Extrusion 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.Applications: Industrial Liners, T-Shirt Bags, Trash Can Liner and Heavy Duty BagsInformation provided by Formosa Plastics Corporation, USA

Order this product through the following link:
http://www.lookpolymers.com/polymer_Formosa-Plastics-Formolene-E927ND-Film-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.949 g/cc	0.0343 lb/in³	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	445 %	445 %	ASTM D882
Film Elongation at Break, TD	547 %	547 %	ASTM D882
Elmendorf Tear Strength MD	8.0 g	8.0 g	ASTM D1922
Elmendorf Tear Strength TD	79 g	79 g	ASTM D1922
Dart Drop Test	373 g	0.822 lb	ASTM D1709
Film Tensile Strength at Break, MD	58.43 MPa	8475 psi	ASTM D882
Film Tensile Strength at Break, TD	49.70 MPa	7208 psi	ASTM D882
1% Secant Modulus, MD	517 MPa	75000 psi	ASTM D882
1% Secant Modulus, TD	917 MPa	133000 psi	ASTM D882

Thermal Properties	Metric	English	Comments
Melting Point	131 °C	268 °F	DSC

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

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