

Formosa Plastics Formolene® E924ND 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® E924ND is a bi-modal HMW-HDPE resin designed for high dart impact strength and good processing characteristics. In addition, this resin has excellent gauge control. Formolene® E924ND is well balanced in overall physical properties and provides good stiffness for thin gauge film applications. Formolene® E924ND 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 Bags Information provided by Formosa Plastics Corporation, USA

Order this product through the following link:

http://www.lookpolymers.com/polymer_Formosa-Plastics-Formolene-E924ND-Film-HDPE.php

Physical Properties	Metric	English	Comments
Density	0.949 g/cc	0.0343 lb/in ³	ASTM D1505
Thickness	12.7 microns	0.500 mil	
Melt Flow	0.040 g/10 min @Load 2.16 kg, Temperature 190 °C	0.040 g/10 min @Load 4.76 lb, Temperature 374 °F	Condition E; ASTM D1238
High Load Melt Index	8.0 g/10 min @Load 21.6 kg, Temperature 190 °C	8.0 g/10 min @Load 47.6 lb, Temperature 374 °F	Condition F; ASTM D1238

Mechanical Properties	Metric	English	Comments
Film Elongation at Break, MD	330 %	330 %	ASTM D882
Film Elongation at Break, TD	455 %	455 %	ASTM D882
Elmendorf Tear Strength MD	18 g	18 g	ASTM D1922
Elmendorf Tear Strength TD	35 g	35 g	ASTM D1922
Dart Drop Test	300 g	0.662 lb	ASTM D1709
Film Tensile Strength at Break, MD	60.0 MPa	8700 psi	ASTM D882
Film Tensile Strength at Break, TD	31.0 MPa	4500 psi	ASTM D882

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

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

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