HDPE

HDPE E924

HIGH DENSITY POLYETHYLENE HIGH MOLECULAR WEIGHT (HDPE-HMW) BIMODAL RESIN

Formolene® E924 is a high molecular weight grade of HDPE designed for high drawdown to produce thin films with good processing and physical properties. Formolene® E924 is well balanced in overall physical properties and provides good stiffness for thin gauge film applications.

Formolene® E924 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.

Typical Application	International Compliance
• T-Shirt Bags	• FDA 21 CFR 177.1520 (polyolefin articles for direct food contact)
• Trash Can Liners and Heavy Duty Bags	
• Multi-Wall Bag Liners	
• Merchandise Bags	

Film Properties

Properties	Test Method	Typical Value	Unit
Dart Drop Impact Strength	ASTM D1709	590	g/mil
Elmendorf Tear Strength (MD/TD)	ASTM D1922	17 / 210	g/mil
Tensile Strength at Break (MD/TD)	ASTM D882	9,800 / 7,000	psi
Tensile Elongation at Break (MD/TD)	ASTM D882	290 / 480	%
1% Secant Modulus (MD/TD)	ASTM D882	74,000 / 128,000	psi

Physical Properties

Properties	Test Method	Typical Value	Unit
Melt Index	ASTM D1238	0.04	g/10 min
HLMI	ASTM D1238	8.50	g/10 min
Density	ASTM D1505	0.949	g/cm^3
Melting Point	DSC	131.0	°C

Film properties are not intended to be used as specifications. They represent 0.50 mil film produced in laboratory conditions at a blow-up ratio of 4.0:1 and a stalk height of 8 times the die diameter. Output: 14.5 Lbs/Hr./In. Die Circumference.