

# AMERICOLENE® HAP5421

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## **High Density Polyethylene High Molecular Weight (HDPE-HMW) Bimodal Resin Designed For Thin Gauge Film Extrusion Applications**

Americolene® HAP5421 is a high molecular weight grade of HDPE designed for high drawdown to produce thin films with good processing and physical properties. Americolene® HAP5421 is well balanced in overall physical properties and provides good stiffness for thin gauge film applications.

Americolene® HAP5421 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.

### **Suggested Applications:**

T-Shirt Bags	Multi-Wall Bag Liners
Trash Can Liners and Heavy Duty Bags	Merchandise Bags

### **Nominal Physical Properties:**

PROPERTY	ASTM TEST METHOD	UNIT	VALUE
<i>Typical Resin Properties for E924:</i>			
<b>Melt Index</b>	D1238	g/10 min.	<b>0.04</b>
<b>HLMI</b>	D1238	g/10 min.	<b>8.50</b>
<b>Density</b>	D1505	g/cm <sup>3</sup>	<b>0.949</b>
<b>Melting Point</b>	DSC	°C	<b>131.0</b>
<i>Typical HAP5421 Film Properties:</i>			
<b>Dart Drop Impact Strength</b>	D1709	g/mil	<b>590</b>
<b>Elmendorf Tear Strength</b>	D1922	g/mil	<b>17/210*</b>
<b>Tensile Strength at Break</b>	D882	psi.	<b>9,800/7,000*</b>
<b>Tensile Elongation at Break</b>	D882	%	<b>290/480*</b>
<b>1% Secant Modulus</b>	<b>D882</b>	<b>psi.</b>	<b>74,000/128,000*</b>

\* MD / TD

Note: 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.

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