

## TechResin® 2204ND

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

TechResin® 2204ND is a high molecular weight grade of HDPE designed for high drawdown to produce thin films with good processing and physical properties. TechResin® 2204ND is well balanced in overall physical properties and provides good stiffness for thin gauge film applications.

TechResin® 2204ND 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.

#### **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
<b><i>Typical Resin Properties for 2204ND:</i></b>			
Melt Index	D1238	g/10 min.	0.04
HLMI	D1238	g/10 min.	8.00
Density	D1505	g/cm <sup>3</sup>	0.949
Melting Point	DSC	°C	131.0
<b><i>Typical 2204ND Film Properties:</i></b>			
Dart Drop Impact Strength	D1709	g/mil	470
Elmendorf Tear Strength	D1922	g/mil	16/165*
Tensile Strength at Break	D882	psi.	8,600/5,750*
Tensile Elongation at Break	D882	%	286/440*
1% Secant Modulus	D882	psi.	73,000/124,000*

\* 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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