

## TechResin<sup>®</sup> 2207ND

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

TechResin<sup>®</sup> 2207ND is a bimodal HMW-HDPE resin designed for high dart impact strength and good processing characteristics. TechResin<sup>®</sup> 2207ND is well balanced in overall physical properties and provides good stiffness for thin gauge film applications.

TechResin<sup>®</sup> 2207ND 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	Industrial Liners
Trash Can Liners	Heavy Duty Bags

#### **Nominal Physical Properties:**

PROPERTY**	ASTM TEST METHOD	UNIT	VALUE
Density	D1505	g/cc	0.949
Melt Index, Condition E,			
Condition E, 190°C/2.16 kg (MI)	D1238	g/10 min.	0.07
Condition F, 190°C/21.6 kg (HLMI)	D1238	g/10 min.	12.0
Melting Point	DSC	°C	131.0
<b>Typical Film Properties:</b>			
Dart Impact	D1709	g/mil.	373
Elmendorf Tear Strength	D1922	g/mil.	8/79*
Tensile Strength at Break	D882	psi.	8,475/7,208*
Elongation	D882	%	445/547*
1% Secant Modulus	D882	psi.	75,000/133,000*

\* MD / TD

Note: Film Properties based on 0.60 mil film produced in laboratory conditions at a Blow Up Ratio of 4.0 and a stalk height of 8X the die diameter. Actual film properties may vary depending on operating conditions and additive packages. Film properties are not intended to be used as specifications.

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