



## Specifications, Performance & Properties

### Electrical & Mechanical Specifications

Typical Properties	Test Method	Performance
Operating Temperature Ranges:		
Continuous:		-45°C to 200°C (-50°F to 400°F)
Intermittent:		-65°C to 260°C (-80°F to 500°F)
Specific Gravity	ASTM D792	1.2 ± .03
Hardness, Durometer, Shore A	ASTM D2240	
Room-cured – 24 Hours:		55 ± 5
Tensile Strength	ASTM D412	700 psi min.
Elongation	ASTM D412	300% min
Tear Strength	ASTM D624, Die B	60ppi min.
Bond Strength	MIL-I-46852	2 lbs. Min.
Adhesion, unwind	ASTM D2148	3 in. min.
Cold Brittle Point	ASTM D2137	-54°C (-65°F)
Water Absorption, by weight	Fed. Std. 601, Meth. 6251	5% max.
Dielectric Strength	ASTM D149	400Vpm min.
Dielectric Constant, 1kHz	ASTM D150	2.95
Dissipation Factor, 1kHz	ASTM D150	< 0.0004
Volume Resistivity	ASTM D257	1 x 10 <sup>13</sup> OHMS/cm min.

### Relation and Compliance to Industry Standards

- A-A-59163: Which supercedes MIL-I-46852C
- CPSIA: Consumer Product Safety Improvement Act
- PROP 65: The Safe Drinking Water and Toxic Enforcement Act of 1986
- Class H Insulator – National Electrical Manufacturers Association (NEMA)
- RoHS: Restriction of Hazardous Substances Directive 2002/95/EC
- REACH: Registration, Evaluation, Authorization and Restriction of Chemicals (EU Regulation)
- Flammability Testing: Per CPSC's ASTM F963-08

The Ultimate Insulating Wrap Product Line is UL Listed for use at not more than 600 V and at not more than 80°C (176°F).

### General Performance Properties

Moisture Resistance • <i>Excellent</i>	UV Resistance • <i>Excellent</i>
Electrical Insulation • <i>Excellent</i>	Ozone Resistance • <i>Excellent</i>
Resilience • <i>Excellent</i>	Corrosion Prevention • <i>Excellent</i>
High Temperatures • <i>Excellent</i>	Solvent Resistance • <i>Good</i>
Flame Resistance • <i>Good</i>	Acid Resistance • <i>Good-Fair</i>
Abrasion Resistance • <i>Good</i>	Oil Resistance • <i>Good-Fair</i>
Tear Resistance • <i>Good</i>	Hydrocarbon Resistance • <i>Good-Fair</i>