



SILICON TAPE



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 ¹³ 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>

Warranty: -SILICONE Tape is warranted against defects in material and workmanship when used for the purposes intended, under normal conditions. The warranty applies to product only and does not apply to damages arising from use of the warranted product. The above values are typical performance data of silicone rubber tape and are not intended to be used as design data.