

# 369 TAPE Self-fusing silicone tape



Self-fusing tape is made of special fully cured silicone rubber compound that fuses to itself forming a permanent bond. Whether you call it fusible tape, self-fusing, self-vulcanising, self amalgamating tape or just silicone tape, this product is amazingly useful. This tape is ideal for electrical insulation, moisture protection, and high or low temperature applications. And, since there is no adhesive, no residue remains when the tape is removed. This silicone tape is the perfect alternative to adhesive electrical tape, duct tape, and heat shrink tape for many applications.



## What's it used for?

- Harness wrapping and wire bundling for high temperature applications
- Insulation of field armature and interpolecoils in large motors
- Insulation and sealing of electrical connectors
- Masking tape in powder coating
- High temperature sealing tape

## Technical Information

- Thermal stability 180°C
- Short term maximum temperature 260°C
- Hardness 40 ±10 Shore A
- Self-adhesive bond forms within 24 Hours

## Standard Formats

- 369 tape is stocked as 25mm and 38mm wide tape.
- The tape is offered in 11mtr rolls

Tape Thickness mm	Tape width mm	Roll length meter	Colour
0.5mm	25.4mm	11m	Red
0.5mm	25.4mm	11m	Black
0.5mm	38.1mm	11m	Black
0.8mm	50.8mm	11m	Black

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## 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	55 5
Room-cured – 24 Hours:		
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 2022/95/EC
- REACH: Registration, Evaluation, Authorization and Restriction of Chemicals (EU Regulation)
- Flammability Testing: Per CPSC's ASTM F963-08

## General Performance Properties

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

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