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Technical Data Sheet

Permatex® Self-fusing Silicone Tape

AAM Revised 02/19

PRODUCT DESCRIPTION

Permatex® Self-fusing Silicone Tape is a convenient, ready to use tape which can be used to make airtight and waterproof seals on many types of materials and applications including electrical connections, hoses, and cables and to reduce vibration of hand tools. It is tear, abrasion, and UV resistant and it withstands exposure to fuel, water, oil, acids, and many solvents. Permatex® Self-fusing Silicone Tape also meets MIL Spec A-A-59163, UL510, and it is a class H Insulator.

PRODUCT BENEFITS

- Excellent heat, chemical and moisture resistance
- Full cure is achieved in 24 hours
- Tear and abrasion resistant
- Non-flammable
- UV resistant

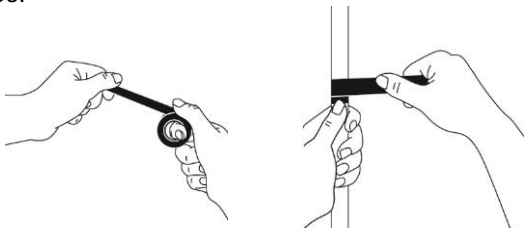
TYPICAL APPLICATIONS

- Seal hoses and leaky plumbing
- Insulate electrical connections
- Wrap hand tool handles

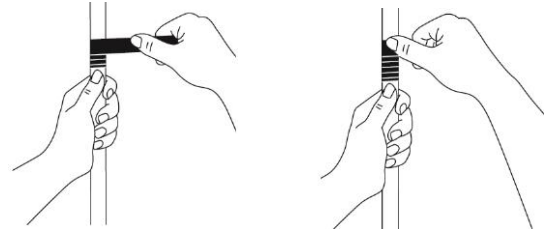
DIRECTIONS FOR USE

Note: For leaks, use several layers of stretched tape. For electrical repairs, always disconnect the power before starting the repair.

1. Remove any excess dirt, oil, etc. from repair area and clean hands with Permatex® Fast Orange® hand cleaners or soap and water before starting the repair.
2. Remove Permatex® Self-fusing Silicone Tape from the package and peel 1-2 inches of liner from the tape.
3. Press the exposed tape firmly to the surface to be repaired, making sure to completely overlap the first wrap over itself while at the same time stretching the tape.



3. While stretching the tape as it is wrapped, overlap each layer approximately 2/3 of the previous wrap, peeling off the liner as you wrap. The tape fuses on both sides as it is wrapped and it will start bonding together almost immediately. The more the tape is stretched, the faster it fuses together and the stronger the grip. Permatex® Self-fusing Silicone Tape stretches up to 3 times its original length.



4. Finish by completely overlapping the last wrap and press the tape firmly. **Do not try to reposition or reuse the tape.** At room temperature, the repaired area is in most cases sealed immediately and the tape fully cures in 24 hours.
5. Check the repair area periodically to ensure that the leak has stopped. If a leak is detected, remove the tape (see below) and start over at Step 1.

For Tape Removal and Cleanup

1. Remove Self-fusing Silicone tape with a safety razor by carefully cutting across the width of the tape. The tape leaves no sticky residue.
2. Clean hands with Permatex® Fast Orange® hand cleaners or soap and water.

PROPERTIES OF CURED MATERIAL

	Typical Value
Chemical Type	Silicone Gum
Appearance	Black Tape
Specific Gravity	1.20 g/ml
Odor	Odorless
Temperature Range (Continuous)	-50 - 400°F (-45 - 200°C)
(Intermittent)	-80 - 500°F (-62 - 260°C)
Tensile Strength	700 psi
Elongation	300%
Hardness, Shore A	55
Dielectric Strength	400 Vpm
Dielectric Constant, 1kHz	2.95
Dielectric Factor, 1kHz	<0.0004
Volume Resistivity	1 x 10 ¹³ OHMS/cm
Cure Time (75°F)	Use time – Immediately Full cure – 24 hours

GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected for use with chlorine or other strong oxidizing materials.

For safe handling information on this product, consult the Material Safety Data Sheet, (MSDS).

ORDERING INFORMATION

Part Number	Container Size
82112	1" x 10' roll, carded

STORAGE

Products shall be ideally stored in a cool, dry location in unopened containers at a temperature between 8° and 28°C (46°F and 82°F) unless otherwise labeled. Optimal storage is at the lower half of this temperature range. To prevent contamination of unused product, do not return any material to its original container.

NOTE

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