

LOCTITE[®] SI 5049

Known as LOCTITE[®] Insulating and Sealing Wrap
December 2013

PRODUCT DESCRIPTION

LOCTITE[®] SI 5049 provides the following product characteristics:

Technology	Silicone Wrap
Appearance	red
Components	One component - requires no mixing
Cure	Not applicable
Operating Temperature	-54 to 260 °C
Thickness	0.5 mm
Application	Sealing and Insulating

LOCTITE[®] SI 5049 is a self-fusing, silicone rubber wrap that is recommended for reliable, temporary repairs on a variety of substrates. LOCTITE[®] SI 5049 does not bond to the substrate so it must be used as a wrap due to the self-fusing properties of the tape. Typical applications includes flexible hose repair, pipe repair, tool handle wrap, and electrical insulative wrap.

TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties:

Shore Hardness, ISO 868, Durometer A	50
Tensile Strength, ISO 527-3	N/mm ² 4.8 (psi) (700)
Tear Strength, ISO 34-1	N/mm ² 0.6 (psi) (85)
Elongation, ISO 527-3, %	300
Water Absorption, ISO 62, %: By Weight	≤3

Electrical Properties:

Surface Resistivity, IEC 60093, Ω	74.3×10 ¹⁵
Volume Resistivity, IEC 60093, Ω·cm	1×10 ¹⁴
Dielectric Constant / Dissipation Factor, IEC 60250: 1kHz	2.95 / <0.0004
Dielectric Breakdown Strength, IEC 60243-1, kV/mm:	
0.25 to 0.76 mm	15.7
1.02 mm	11.8
1.3 mm	10.8
1.5 mm	9.8
1.7 to 2.0 mm	7.9

GENERAL INFORMATION

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

Directions for use:

1. Separate LOCTITE[®] SI 5049 from the liner.
2. Peel away enough silicone wrap to complete the repair.
3. Press one end onto the surface and begin to wrap.
4. Stretch the silicone wrap tightly while wrapping over the repair area.
5. Wrap the repair area with a two-thirds overlap for a proper seal.
6. Finish wrapping by overlapping the silicone wrap with a previous layer.

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

Storage

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal Storage: 8 °C to 21 °C. Storage below 8 °C or greater than 28 °C can adversely affect product properties. Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

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