

LOCTITE[®] SI 5633[™]

March 2021

PRODUCT DESCRIPTION

LOCTITE[®] SI 5633[™] provides the following product characteristics:

Technology	Silicone
Chemical Type	2K additional cure
Appearance (cured)	Pink
Appearance - Part A	Red
Appearance - Part B	White
Mixing Ratio, by volume Component A : Component B	1 : 1
Mixing Ratio, by weight Component A : Component B	1 : 0.93
Curing Condition	80°C x 30 min
Application	Electronic assemblies

LOCTITE[®] SI 5633[™] are 2K additional cure silicone for sealing application. This product is non-corrosive thermal conductive potting for electronic assemblies.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Part A Properties

Specific Gravity, ASTM D792 @ 25°C, g/cc	1.69
Viscosity @ 25 °C, mPa·s (cP) @ 10 s ⁻¹	5,500

Part B Properties

Specific Gravity, ASTM D792 @ 25°C, g/cc	1.57
Viscosity @ 25 °C, mPa·s (cP) @ 10 s ⁻¹	4,500

Mixed Properties

Specific Gravity, ASTM D792 @ 25°C, g/cc	1.63
Viscosity @ 25 °C, mPa·s (cP) @ 10 s ⁻¹	5,000
Working life @ 25°C, minutes	>60

TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties

Hardness, Shore A, ASTM D2240	28
Elongation, ASTM D412, %	>150
Tensile Strength, ASTM D412, MPa	>1.0
CTE, ASTM E831, ppm/K	239
Flammability, UL 94	V0

Thermal Properties

Thermal Conductivity, ISO22007-2, W/(m·K)	1.0
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Electrical Properties

Dielectric Constant, ASTM D150, °C, @1,000Hz	4
Dielectric Strength, ASTM D149, kV/mm	>20
Volume Resistivity, ASTM D257, Ω·cm	10E13

GENERAL INFORMATION

The cure of this silicone product may be inhibited through contact with certain contaminants. Avoid contact with butyl and chlorinated rubbers, amines, sulfur or sulfur containing materials, tin containing compounds, or heavy metal salts.

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

Directions For Use:

1. Some filler settling is common during shipping and storage. For this reason, the resins are stirred prior to use. Avoid air introduction during stirring. .

Storage

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

Optimal Storage: 5 to 25°C

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.

Conversions

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{kV/mm} \times 25.4 = \text{V/mil}$
 $\text{mm} / 25.4 = \text{inches}$
 $\mu\text{m} / 25.4 = \text{mil}$
 $\text{N} \times 0.225 = \text{lb}$
 $\text{N/mm} \times 5.71 = \text{lb/in}$
 $\text{N/mm}^2 \times 145 = \text{psi}$
 $\text{MPa} \times 145 = \text{psi}$
 $\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$

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