

LOCTITE SI 5699C

July 2016

PRODUCT DESCRIPTION

LOCTITE SI 5699C provides the following product characteristics:

Technology	Silicone
Appearance	White
Components	One-component
Product Benefits	<ul style="list-style-type: none"> • Fire resistant • Non-corrosive • Non-conductive • Water resistant • Excellent environmental resistance • Excellent cold and heat aging
Cure	Room temperature vulcanizing (RTV)
Application	Gasketing and sealing
Typical Assembly Applications	Adhering and sealing electronic wiring
Operating Temperature	-50 to 200 °C

LOCTITE SI 5699C silicone sealant has excellent adhesion and can be used to seal electronic components.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity	1.45 to 1.6
Shelf Life @ 27°C, days	365
Flash Point - See SDS	

TYPICAL CURING PERFORMANCE

LOCTITE SI 5699C cures on exposure to moisture in the air. Cure times vary with temperature, humidity and gap size.

Tack Free Time

Tack Free Time, minutes	≤20
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TYPICAL PROPERTIES OF CURED MATERIAL

Physical Properties

Shore Hardness, Shore A	55 to 65
Tensile Strength, N/mm ²	≥1.5
Elongation @ break, %	≥100
Peel Strength, KN/m	≥0.8

Electrical Properties

Dielectric Constant / Dissipation Factor@ 1 MHz	3.0/0.001
Volume Resistivity, ohms-cm	2.54×10 ¹⁴
Dielectric Strength, kV/mm	≥14

TYPICAL PERFORMANCE OF CURED MATERIAL

Shear Strength

Lap Shear Strength :	
Aluminum	N/mm ² ≥0.8 (psi) (≥116)

GENERAL INFORMATION

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

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

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.

DIRECTIONS FOR USE

1. Bonding surfaces should be clean of contaminants such as paint, dirt, oil or other foreign matter.
2. Moisture curing begins immediately after product is exposed to the atmosphere. Parts should be assembled within a few minutes after the product is applied.

STORAGE:

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

Optimal Storage : 27 °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 or Customer Service Representative.

Conversions

(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = inches
N x 0.225 = lb
N/mm x 5.71 = lb/in
psi x 145 = N/mm ²
MPa = N/mm ²
N·m x 8.851 = lb·in
N·m x 0.738 = lb·ft
N·mm x 0.142 = oz·in
mPa·s = cP

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