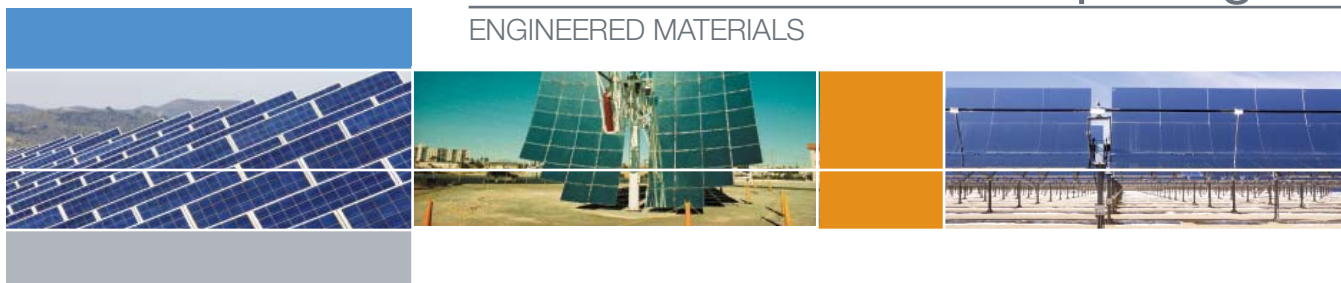


SiTRUST* TSE3664K

flame retardant silicone potting

ENGINEERED MATERIALS



SiTRUST TSE3664K is a two-component condensation cure silicone rubber designed for electric potting. SiTRUST TSE3664K cures at room temperature to form an elastic flame retardant rubber and adheres to various types of materials such as metal, plastics, glass and ceramics without the use of primers.

Key Features and Typical Benefits

- flame retardant: UL94V-0 recognized (File No. E56745)
- low viscosity allows for excellent flowability
- fast cure
- excellent deep section cure
- excellent adhesive properties: primerless adhesion to many types of substrates
- no cure inhibition

Potential Applications

- potting of electric and communications parts
- moisture proof sealing of meters
- moisture proof coating of electric circuit boards

Typical Physical Properties (JIS K 6249)

Uncured Properties (23°C, 50%RH)	SiTRUST TSE3664K(A)	SiTRUST TSE3664K(B)
Appearance	Gray	Blue
Specific Gravity	1.41	1.08
Viscosity Pa•s	4.0	0.01
Mixing Ratio by Weight	100:7.5	
Mix Ratio by Volume	100:10	
Viscosity after Mixing Pa•s	3.0	
Pot Life h	0.1	
Tack Free Time min	20	
Cured Properties (3 days @ 23°C, 50%RH)		
Appearance	Elastic rubber, Gray	
Density g/cm ³	1.41	
Hardness (Type A)	60	
Tensile Strength MPa	3.0	
Elongation %	70	
Adhesive Strength (GL lap share) MPa	1.0	
Volume Resistivity Ω•m	5.0 x 10 ¹⁵	
Dielectric Strength kV/mm	26	
Dielectric Constant (60Hz)	3.1	
Dissipation Factor (60Hz)	0.01	
Thermal Conductivity ⁽¹⁾ W/m•K	0.4	

1) In-house test method
Typical property data values should not be used as specifications.

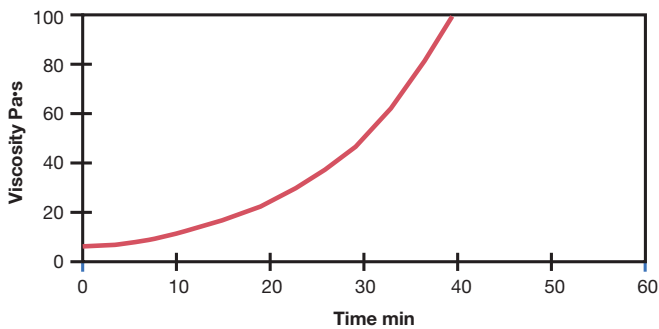
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Adhesion Capability

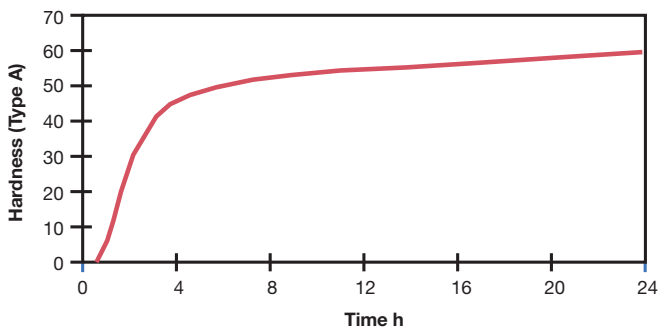
Aluminum	O
Stainles Steel	O
Copper	O
Polyester	O
Epoxy Resin	O
Polycarbonate	O
Acrylic Resin	X
ABS	X
PBT (Polybutylene terephtharate)	X
PPS (Polyphenylene sulfide)	X
PET (Polyethylene terephtharate)	X
Noryl (PPO=Polyphenylene oxide)	O
Phenolic Resin	O
Nylon-6	X
Nylon-66	X
Glass	O
PVC (Polyvinylchloride)	X
Steel	O
PP (Polypropylene)	X
PE (Polyethylene)	X

O: Excellent (Cohesive failure) X: Poor (Adhesive failure)

Cure Property: Viscosity (23°C, 50%RH)



Cure Property: Hardness (23°C, 50%RH)



General Instructions for Use

Mixing

In case of filler sedimentation of (A) component during storage, mix it homogeneously before using. Select a mixing container 4-5 times larger than the volume of silicone rubber compound to be used. Weight out (A) and (B) with clean tools, thoroughly mix them, scraping the sides and the bottom of the container carefully to produce a homogenous mixture.

Deaeration and Curing

Air entrapped during mixing should be removed to eliminate voids in the cured rubber. Expose the mixed material to a vacuum of about 20mm of mercury. The material will expand, crest, and recede to about the original level as the bubbles break. Degassing is usually complete about two minutes after frothing ceases. Pour the material in the part, and leave it with the room temperature.

Handling and Safety

- wear eye protection and protective gloves as required while handling.
- maintain adequate ventilation in the work place at all times.

Storage

- store in a cool dry place out of direct sunlight.
- keep out of the reach of children.

Packaging

SiITRUST TSE3664K(A)

- 1kg can available in cases of 10
- 20kg pail available

SiITRUST TSE3664K(B)

- 240g bottle available in cases of 10
- 1kg can available in cases of 10

SiITRUST* TSE3664K flame retardant silicone potting

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Material Safety Data Sheet (MSDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, and any special storage conditions required for safety. MSDS are available at www.momentive.com or, upon request, from any Momentive Performance Materials (MPM) representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

Emergency Service

Momentive Performance Materials maintains an around-the-clock emergency service for its products.

<u>Location</u>	<u>Emergency Service Provider</u>	<u>Emergency Contact Number</u>
Mainland U.S., Puerto Rico	CHEMTREC	1-800-424-9300
Alaska, Hawaii	CHEMTREC	1-800-424-9300
Canada	CHEMTREC	1-800-424-9300
Europe, Israel	NCEC	+44 (0) 1235239670
Middle East	NCEC	+44 (0) 1235239671
Asia Pacific (except China)	NCEC	+44 (0) 1235239670
China	NCEC	+86-10-5100-3039
Latin America (except Brazil)	NCEC	+44 (0) 1235239670
Brazil	SOS Cotec	08000111767 or 08007071767
All other locations world wide	NCEC	+44 (0) 1235239670
At sea	Radio U.S. Coast Guard in U.S. waters NCEC in International waters	+44 (0) 1235239670

For Health related calls, contact Momentive Performance Materials at +1-518-233-2500 (English only).

DO NOT WAIT. Phone if in doubt. You will be referred to a specialist for advice.

Customer Service Centers

Worldwide

4information@momentive.com

+1 614 986 2495 / T +1 800 295 2392

North America

Silicones

T +1 800 332 3390

Consumer Sealants/ Construction Sealants and Adhesives

T +1 877 943 7325

Latin America

South America

T +55 11 4534 9650

Mexico and Central America

T +52 55 2169 7670

Europe, Middle East, Africa and India

T +00 800 4321 1000 / +40 21 3111848

Pacific

China

T +800 820 0202 / +86 21 3860 4892

Japan

T +0120 975 400 / +81 276 20 6182

Korea

T +82 2 6201 4600

Malaysia

T +60 3 9206 1532

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22 Corporate Woods Boulevard
Albany, NY 12211 USA
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