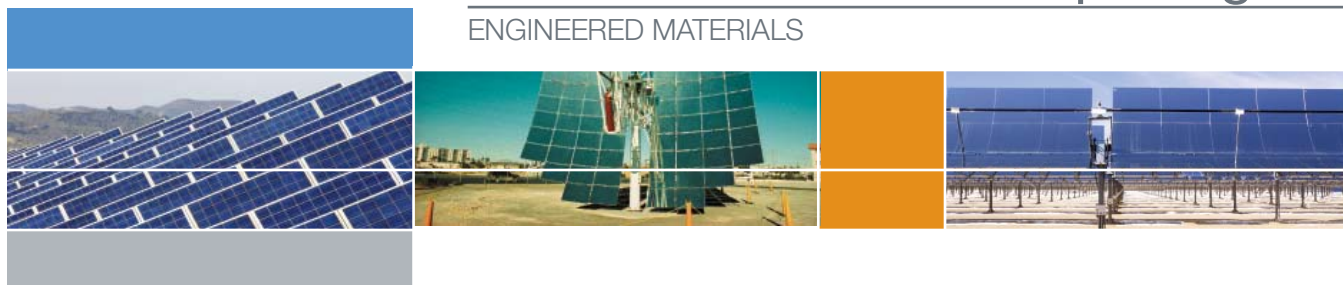


SiTRUST* TSE3661

flame retardant silicone potting

ENGINEERED MATERIALS



SiTRUST TSE3661 is a two-component condensation cure silicone rubber designed for electric potting. SiTRUST TSE3661 cures at room temperature to form an elastic 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

- 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
- flame retardant: UL94HB recognized (File No: E56745)

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 TSE3661(A)	SiTRUST TSE3661(C)
Appearance	White	Blue-Green
Specific Gravity	1.20	1.04
Viscosity Pa·s	4.0	0.01
Mixing Ratio by Weight	100:3	
Viscosity after Mixing Pa·s	3.5	
Pot Life h	0.1	
Tack Free Time min	20	
Cured Properties (3 days @ 23°C, 50%RH)		
Appearance	Elastic rubber, Blue-Green	
Density g/cm ³	1.20	
Hardness (Type A)	30	
Tensile Strength MPa	1.1	
Elongation %	120	
Adhesive Strength (GL lap share) MPa	0.8	
Volume Resistivity Ω·m	1.0 x 10 ¹⁵	
Dielectric Strength kV/mm	20	
Dielectric Constant (60Hz)	3.2	
Dissipation Factor (60Hz)	0.02	
Thermal Conductivity ⁽¹⁾ W/m·K	0.27	

1) In-house test method

Typical property data values should not be used as specifications.

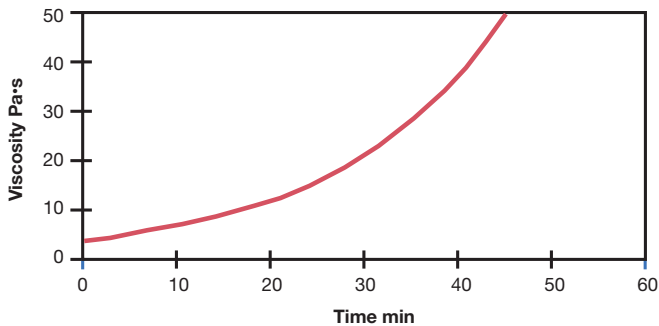
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Adhesion Capability

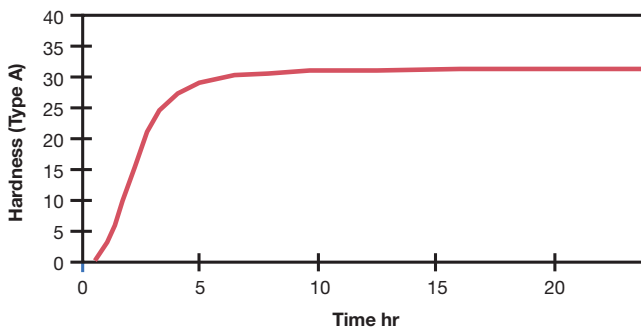
Aluminum	O
Stainles Steel	O
Copper	O
Polyester	O
Epoxy Resin	O
Polycarbonate	O
Acrylic Resin	O
ABS	O
PBT (Polybutylene terephtharate)	O
PPS (Polyphenylene sulfide)	O
PET (Polyethylene terephtharate)	O
Noryl (PPO=Polyphenylene oxide)	O
Phenolic Resin	O
Nylon-6	O
Nylon-66	O
Glass	O
PVC (Polyvinylchloride)	O
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 (C) with clean tools, thoroughly mix them, scraping the sides and the bottom of the container carefully to produce a homogeneous 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 TSE3661(A)

- 1kg can available in cases of 10
- 18kg pail available

SiITRUST TSE3661(C)

- 30g bottle available in cases of 20
- 550g bottle available in cases of 10

SiITRUST* TSE3661 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.

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