

GE Advanced Materials
Silicones

RTV Silicone Rubber

Product selector guide



GE Bayer Silicones

RTV Overview

R Room

T Temperature

V Vulcanizing

RTV Silicone is a liquid silicone rubber developed for potting, adhesion, sealing, and coating for use in electronic, electrical, automotive, and general industrial applications. GE Advanced Materials Silicones applies its many years of experience and technical excellence in the development of its RTV products, and offers its customers a level of performance critical to achieving long term integrity and reliability in a wide range of applications.

CONTENTS

<i>RTV Silicone Overview</i>	<i>P. 3</i>
<i>Industries / Applications</i>	<i>P. 4-5</i>
<i>Product Index</i>	<i>P. 6-7</i>
<i>Property Selection Guide</i>	<i>P. 8</i>
<i>Product List</i>	
<i>Adhesion and Sealing RTV's</i>	
<i>1 Part Condensation Cure</i>	<i>P.9-10</i>
<i>1 Part Addition Cure</i>	<i>P. 11</i>
<i>2 Part Addition Cure</i>	<i>P. 12</i>
<i>2 Part Condensation Cure</i>	<i>P. 12</i>
<i>Coatings RTV's</i>	
<i>1& 2 Part Condensation Cure</i>	<i>P. 13</i>
<i>1 Part Addition Cure</i>	<i>P. 14</i>
<i>Potting RTV's</i>	
<i>1 Part /2 Part Potting Gels/</i>	<i>P. 15</i>
<i>1 Part Potting Rubber</i>	<i>P. 15-16</i>
<i>2 part Potting Rubber</i>	<i>P. 17</i>
<i>Silicone Junction Coatings</i>	<i>P. 18</i>
<i>Heat Conductive RTV's</i>	<i>P. 19</i>
<i>Heat Conductive Silicone Grease</i>	<i>P. 20</i>
<i>Low Volatility Grades</i>	<i>P. 20</i>
<i>UL Recognized Products</i>	<i>P. 21</i>
<i>Product Packaging and Color</i>	<i>P. 22-24</i>
<i>Technical Information</i>	
<i>Curing Properties</i>	<i>P. 25-26</i>
<i>Adhesion</i>	<i>P. 27</i>
<i>Chemical Resistance</i>	<i>P. 28</i>
<i>Electrical Properties</i>	<i>P. 28</i>
<i>Heat Resistance / Precaution for use</i>	<i>P. 29</i>
<i>Dispensing Equipment</i>	<i>P. 30</i>
<i>GE Silicones / GE Bayer Silicones Information</i>	<i>P. 31</i>

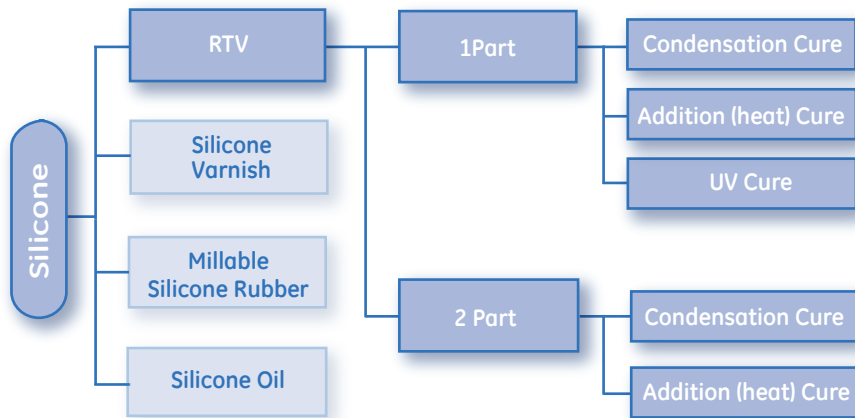
RTV Silicone Profile

RTV silicones consist of Condensation Cure, Addition (heat) Cure, and UV Cure grades. Selection of the appropriate type of RTV depends upon the required manufacturing process, handling requirements, curing conditions, equipment, and material properties.

Condensation Cure RTV: Cures to form an elastic silicone rubber when exposed to moisture in the environment at room temperatures. One part RTVs are categorized into Alkoxy Oxime, or Acetoxy, based upon the by-products that occur during cure.

Addition Cure RTV: Cures to form an elastic silicone rubber when exposed to either heat or room temperature.

UV Cure RTV: Cures to form and elastic silicone rubber when exposed to UV light.



Benefits and Characteristics

Property	Silicone RTV	Epoxy	Urethane
Temperature Range	-50 ~ +200°C	-50 ~ +150°C	-30 ~ +120°C
Heat Resistance	Excellent	Poor	Poor
Flame Retardancy*	Excellent	None	None
UV Stability	Excellent	Poor	Poor
Ozone Stability	Excellent	Poor	Poor
Modulus	Low	High	High

* As a base material, silicone demonstrates flame retardant properties comparable to UL94HB. Refer to page 22 for information on UL recognized products.

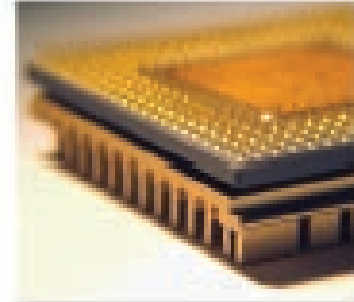
RTV silicones exhibit high performance under many harsh operating environments. They also provide strong primerless adhesion to many substrates including metals, plastics, glass, and ceramics.



Industries / Applications

Electronics

GE Advanced Materials Silicones RTVs are used extensively in the Electronic and Electric industries to ensure long term, reliable performance of critical components and electronic circuit assemblies. Silicone adhesives, sealants, conformal coatings, potting gels / rubber, encapsulants, and thermal management materials play a vital role in many of today's demanding electronic applications.



Typical Applications:

- Power Module
- Converter
- Solar Cell
- Hybrid IC
- Micro-Electronic
- PCB Fixing & Sealing
- High Voltage Part Insulation
- Sensors
- Membrane Switches
- LEDs
- Photo Couplers

Home Appliances

RTVs are commonly used in a wide variety of consumer goods and home appliance products. In addition to strong adhesion performance to many substrates, silicones provide heat resistance, flame retardancy, and moisture / dirt protection that make silicone an ideal material for a variety of sealing, bonding, and insulation applications.



Typical Applications:

- Flat Panel Display Sealing
- CRT Wedges, Bases, Anode
- Microwave Oven Doors, Box Sealing
- Steam Iron Plate Seal
- Air Conditioner Units
- Gas Stoves
- Heaters, Ovens
- Control Panel Insulation
- PCB Fixing & Sealing

Automotive

The Automotive Industry plays a critical role in integrating new electronic technologies. As more and more components migrate to electronic solutions, RTVs play an increasingly vital role in delivering material solutions to provide design flexibility, protection, and long-term component reliability under harsh operating conditions.

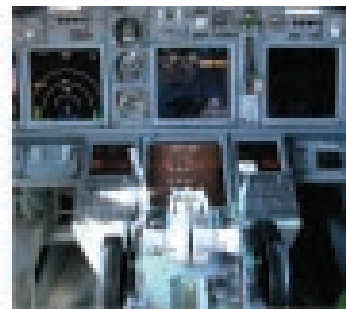
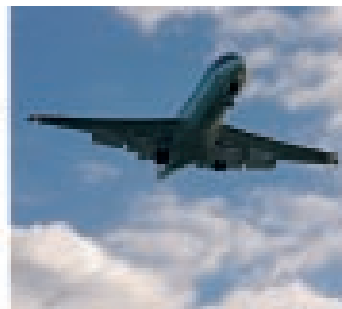


Typical Applications:

- ECU Potting, Sealing, Coating
- Wire Connector Potting
- Alternator Voltage Regulators
- Actuators
- HVAC Systems
- Sensor Potting, Sealing
- Air Flow Meters
- Pressure Sensors
- Temperature Sensors
- Rotation Sensors
- Ultrasonic Sensors
- Headlamp Seals
- LED Lamp Potting
- Airbag Coating
- Engine FIPG Gaskets

Aerospace

Electronic component and frame assembly needs in the Aerospace Industry are served through RTV adhesives, potting, coating, encapsulation, and sealing materials that withstand stress and temperature extremes.



Typical Applications:

- Cockpit Instrument
- Electronic Power Equipment
- Circuit and Terminal Protection
- Wire Sealant
- Engine Gasketin
- Engine Electronics Potting
- Cargo Door Seal
- Window Assembly Sealants
- Weather Strip Adhesive
- Lighting Sealants
- Ventilation Ducts
- General Maintenance

Selection Guide

Product Index

Type	Product Code	Cure Type		Characteristic	Application				
					Adhesive / Seal	Coating	Potting	Thermal Mgmt.	
ONE PART	General Purpose	TSE392	Condensation	Alkoxy	Non-Flowable, Low Volatility	P.9			
		TSE3925	Condensation	Alkoxy	Non-Flowable, Low Volatility	P.9			
		TSE397	Condensation	Alkoxy	Flowable	P.9	P.13		
		TSE3971	Condensation	Alkoxy	Flowable	P.9	P.13		
		TSE3972	Condensation	Alkoxy	Flowable	P.9	P.13		
		TSE3975	Condensation	Alkoxy	Flowable, Low Volatility	P.10	P.13		
		TSE399	Condensation	Alkoxy	Flowable		P.13	P.15	
		TSE3991	Condensation	Alkoxy	Flowable		P.13	P.15	
		TSE3995	Condensation	Alkoxy	Flowable, Low Volatility		P.13	P.15	
		TSE3996	Condensation	Alkoxy	Flowable, Low Volatility		P.13	P.15	
		RTV142	Condensation	Alkoxy	Flowable, UL94HB	P.9			
		RTV160	Condensation	Alkoxy	Flowable, UL94HB	P.9			
		RTV162	Condensation	Alkoxy	Non-Flowable, UL94HB	P.10			
		RTV5242/5243/5249	Condensation	Alkoxy	Non-Flowable, UL94HB	P.10			
		IS802/803/806/808	Condensation	Acetoxy	Non-Flowable, UL94HB	P.10			
		RTV102/106/108/109	Condensation	Acetoxy	Non-Flowable	P.10			
		RTV112/118	Condensation	Acetoxy	Flowable	P.10			
		RTV1473	Condensation	Acetoxy	Non-Flowable, Oil Resistance	P.10			
		RTV157	Condensation	Acetoxy	Non-Flowable	P.10			
		RTV159	Condensation	Acetoxy	Non-Flowable	P.10			
		FRV1106	Condensation	Acetoxy	Non-Flowable	P.10			
		RTV6424	Addition	Heat	Non-Flowable	P.11			
		TSE3051	Addition	Heat	Gel		P.15		
		TSE3212	Addition	Heat	Semi-Flowable	P.11	P.14		
		TSE322	Addition	Heat	Flowable	P.11			
		TSE322S	Addition	Heat	Semi-Flowable, UL94HB	P.11			
		TSE3221S	Addition	Heat	Flowable	P.11	P.14		
		TSE325	Addition	Heat	Flowable		P.14		
		TSE3250	Addition	Heat	Flowable		P.14	P.15	
		TSE3251	Addition	Heat	Semi-Flowable		P.14		
		TSE3251-C	Addition	Heat	Semi-Flowable		P.14		
		TSE3251H	Addition	Heat	Semi-Flowable		P.15		
		TSE3251H-C	Addition	Heat	Semi-Flowable		P.15		
Flame Retardant	TSE3854D	Condensation	Alkoxy	Non-Flowable, UL94 V-0	P.9				
	TSE3941M	Condensation	Alkoxy	Non-Flowable	P.9	P.13		P.19	
	TSE3941	Condensation	Alkoxy	Non-Flowable, UL94 V-1	P.9			P.19	
	TSE3944	Condensation	Alkoxy	Semi-Flowable, UL94 V-0, Low Volatility	P.9	P.13			
	TSE3945	Condensation	Alkoxy	Non-Flowable, UL94 V-0, Low Volatility	P.9				
	TSE3946	Condensation	Alkoxy	Non-Flowable, UL94 V-1, Low Volatility	P.9			P.19	
Heat Resistant	XE11-A5133S	Condensation	Alkoxy	Flowable, UL94 V-1, Low Volatility		P.13	P.15	P.19	
	TSE3976-B	Condensation	Alkoxy	Flowable, UL94HB, Low Volatility	P.10	P.13			
	RTV106	Condensation	Acetoxy	Non-Flowable	P.10				
	RTV116	Condensation	Acetoxy	Flowable, Self-Leveling	P.10				
	TSE326	Addition	Heat	Flowable	P.11				
	TSE326MEX	Addition	Heat	Flowable	P.11				
	TSE3260	Addition	Heat	Flowable, UL94HB	P.11				
TSE3261-G	Addition	Heat	Flowable	P.11					

Product Index

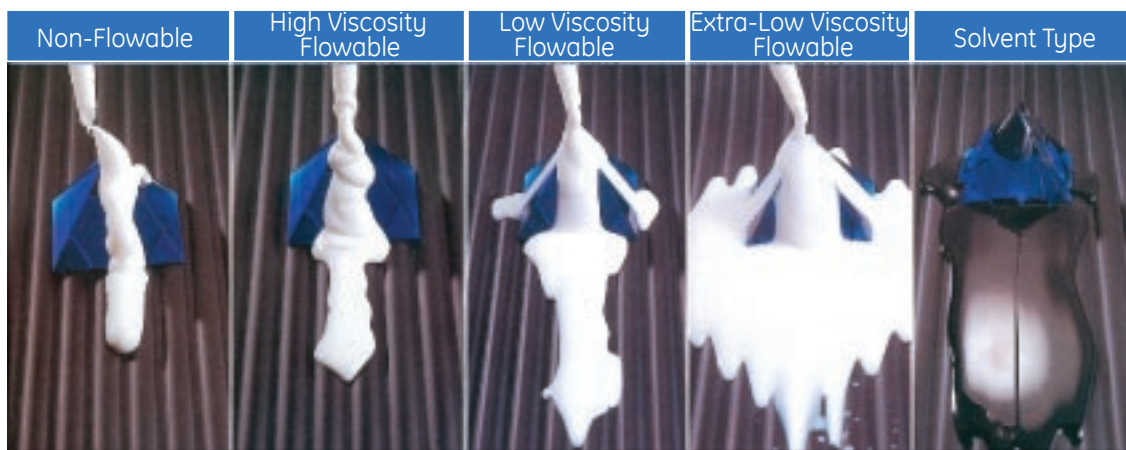
Type	Product Code	Cure Type		Characteristic	Application				
					Adhesive / Seal	Coating	Potting	Thermal Mgmt.	
ONE PART	Thermally Conductive	TSE3941	Condensation	Alkoxy	Non-Flowable, UL94 V-1	P.9			P.18
		TSE3941M	Condensation	Alkoxy	Flowable	P.9	P.13		P.19
		TSE3946	Condensation	Alkoxy	Non-Flowable, UL94 V-1, Low Volatility	P.9			P.19
		XE11-A5133S	Condensation	Alkoxy	Flowable, UL94 V-1, Low Volatility		P.13		P.19
		XE11-B5320	Condensation	Alkoxy	Non-Flowable, Low Volatility	P.10			P.19
		TSE3280-G	Addition	Heat	Flowable	P.11			P.19
		TSE3281-G	Addition	Heat	Flowable, High Thermal Conductivity	P.11			P.19
		TSE3282-G	Addition	Heat	Flowable, High Thermal Conductivity	P.11			P.19
		YG6111	-	-	Silicone Grease, Low Volatility				P.20
		YG6240	-	-	Silicone Grease, Low Volatility				P.20
		YG6260	-	-	Silicone Grease, Low Volatility				P.20
		YG6260V	-	-	Silicone Grease, Low Volatility				P.20
	TSK5303	-	-	Silicone Grease, Low Volatility				P.20	
	Junction Coating	TSJ3155	Addition	Heat	Rubber, Semi-Flowable		P.18		
TSJ3156		Addition	Heat	Rubber, Semi-Flowable		P.18			
TSJ3185		Addition	Heat	Gel, Semi-Flowable		P.18			
TSJ3186		Addition	Heat	Gel, Semi-Flowable		P.19			
TSJ3187		Addition	Heat	Gel, Semi-Flowable		P.18			
TWO PART	General Purpose	TSE3364	Condensation	Room Temperature	Flowable, UL94 V-0	P.12		P.17	
		TSE3663	Condensation	Room Temperature	Flowable	P.12		P.17	
		RTV11	Condensation	Room Temperature	Flowable			P.17	
		RTV511	Condensation	Room Temperature	Flowable			P.17	
		RTV560	Condensation	Room Temperature	Flowable			P.16	
		RTV566	Condensation	Room Temperature	Flowable			P.17	
		RTV567	Condensation	Room Temperature	Flowable			P.16	
		RTV577	Condensation	Room Temperature	Flowable			P.17	
		RTV8111	Condensation	Room Temperature	Flowable			P.17	
		RTV8112	Condensation	Room Temperature	Flowable			P.17	
		RTV8262	Condensation	Room Temperature	Flowable			P.17	
		RTV60	Condensation	Room Temperature	Flowable			P.16	
		RTV88	Condensation	Room Temperature	Non-Flowable			P.16	
		D1-SEA210	Condensation	Room Temperature	Non-Flowable, UL94HB	P.12			
		RTV6428	Addition	Heat / Room Temperature	Flowable			P.16	
		RTV615	Addition	Heat	Flowable			P.16	
		RTV655	Addition	Heat	Flowable			P.16	
		RTV6166	Addition	Heat / Room Temperature	Semi-Flowable			P.16	
		RTV6196	Addition	Heat / Room Temperature	Semi-Flowable			P.16	
		LVG342	Addition	Heat	Flowable, Low Volatility	P.12			
		TSE3032	Addition	Heat	Flowable, Non-Adhesive			P.17	
		TSE3033	Addition	Heat	Flowable		P.14	P.17	
		TSE3062	Addition	Heat	Flowable, Gel,			P.15	
		XE14-7393	Addition	Heat	Flowable, Gel, Low Volatility			P.16	
	TSE350	Condensation	Room Temperature	Flowable			P.17		
	TSE3070	Addition	Heat	Flowable, Gel, High-Elongation			P.16		
	TSE3320	Addition	Room Temperature	Semi-Flowable	P.12				
	TSE3380	Addition	Heat	Flowable, High Thermal Conductivity	P.12			P.18	
	Flame Retardant	TSE3331	Addition	Heat	Flowable, UL94 V-0		P.14	P.17	P.19
		TSE3331K-EX	Addition	Heat	Flowable, Non-Adhesive, UL94 V-0		P.14	P.17	P.19
		TSE3431-H	Addition	Heat	Flowable, Non-Adhesive, UL94 V-0			P.17	
		TSE3080	Addition	Heat	Semi-Flowable, UL94 V-1			P.15	P.19
TSE3081		Addition	Heat	Semi-Flowable, UL94 V-1			P.15	P.19	
XE14-B7892		Addition	Heat	Flowable, Non-Adhesive, UL94 V-0			P.17		
Thermally Conductive	TSE3331	Addition	Heat	Flowable, UL94 V-0		P.14	P.17	P.19	
	TSE3331K-EX	Addition	Heat	Flowable, UL94 V-0		P.14	P.17	P.19	
	TSE 3080	Addition	Heat	Semi-Flowable,			P.15		
	TSE 3081	Addition	Heat	Semi-Flowable			P.15		
	TSE3380	Addition	Heat	Flowable, High Thermal Conductivity	P.12			P.18	
Junction Coatings	TSJ3175	Addition	Heat	Gel, Semi-Flowable		P.18			
	XE14-B5778	Addition	Heat	Rubber, Semi-Flowable		P.18			

1 Part Condensation Cure Property and Feature Matrix

Feature / Property	Standard Grades				Low Volatility Grades				
	General Purpose	Flame Retardant	Heat Resistant	Thermally Conductive	General Purpose	Flame Retardant	Heat Resistant	Thermally Conductive	
Non-Flowable	TSE392	TSE3854D		TSE3941	TSE3925	TSE3945		TSE3946	
	RTV 162				RTV 142	TSE3946			
		TSE3941							
	IS802/803/806/808		RTV106						
	RTV102/103/108/109								
	RTV1473								
	RTV157								
	RTV159								
RTV1106									
Semi-Flowable						TSE3944			
Flowable	High Viscosity	TSE397		TSE3941M		TSE3975	XE11-A5133S	TSE3976-B	XE11-A5133S
		TSE3971							
		TSE3972							
		RTV160							
	Medium	RTV112		RTV116					
Low Viscosity	TSE399				TSE3995				
Extra Low Viscosity	TSE3991				TSE3996				

Alkoxy Acetoxy

RTV silicone adhesives and sealants are widely used in adhesion, coating, and potting applications. Viscosity and flowability of the material are key factors in the selection of the right RTV grade for each application. GE Advanced Materials Silicones offers a wide range of grades in various levels of flowability.



Adhesion and Sealing

Adhesion and Sealing		1 Part Condensation Cure					
Cure Type		Alkoxy					
Product Code		RTV142	RTV160	TSE3854D	TSE392	TSE3925	TSE3941
Feature		General Purpose	General Purpose	Flame Retardant	General Purpose	General Purpose Low Volatility	Flame Retardant
Property		Non-Flowable Low Volatility	Flowable UL94HB	Non-Flowable	Non-Flowable	Non-Flowable	Non-Flowable
Viscosity (23°C)	Pas {P}	Spreadable paste	38 {380}	-	-	-	-
Tack Free Time	min	240	240	15	5	5	5
Density (23°C)	g/cm ³	1.09	1.04	1.32	1.04	1.04	1.65
Hardness	(shore A)	34	25	40	26	30	60
Tensile Strength	MPa {kgf/cm ² }	3.8 {39}	1.9 {19}	2.7 {28}	1.6 {16}	1.6 {16}	2.9 {30}
Elongation	%	400	230	260	430	350	100
Adhesive Strength	MPa {kgf/cm ² }	-	-	2.2 {22}	1.3 {13}	1.3 {13}	1.4 {14}
Linear Expansion	1/K	27x10 ⁻⁵	27x10 ⁻⁵	-	2.1x10 ⁻⁴	-	1.6x10 ⁻⁴
Thermal Conductivity	W/(mK) {cal/(cms°C)}	0.21	0.21	0.34 {8.0x10 ⁻⁴ }	0.18 {4.4x10 ⁻⁴ }	0.18 {4.4x10 ⁻⁴ }	0.83 {2.0x10 ⁻³ }
Volume Resistivity	ohm cm	4.5x10 ¹⁵	4x10 ¹⁴	2.0x10 ¹⁴	2.0x10 ¹⁵	2.0x10 ¹⁵	4.0x10 ¹⁴
Dielectric Strength	kV/mm	20	20	25	22	22	22
Dielectric Constant	(60Hz)	2.8	2.8	3.1	2.9	2.9	4.0
Dissipation Factor	(60Hz)	0.001	0.001	0.02	0.005	0.005	0.04
Remarks		-	-	UL94 V-0	UL94HB	-	UL94 V-1

Adhesion and Sealing		1 Part Condensation Cure						
Cure Type		Alkoxy						
Product Code		TSE3941M	TSE3944	TSE3945	TSE3946	TSE397	TSE3971	TSE3972
Feature		General Purpose	Flame Retardant Low Volatility	Flame Retardant Low Volatility	Flame Retardant Low Volatility	General Purpose	General Purpose	General Purpose
Property		Flowable	Semi-Flowable	Non-Flowable	Non-Flowable	Flowable	Flowable	Flowable
Viscosity (23°C)	Pas {P}	50 {500}	-	-	-	50 {500}	100 {1000}	50 {500}
Tack Free Time	min	5	5	5	5	10	10	5
Density (23°C)	g/cm ³	1.64	1.31	1.45	1.70	1.04	1.04	1.04
Hardness	(shore A)	63	38	51	68	20	16	15
Tensile Strength	MPa {kgf/cm ² }	3.2 {33}	1.5 {15}	2.9 {30}	3.9 {40}	1.2 {12}	1.5 {15}	1.3 {13}
Elongation	%	70	170	200	100	300	350	350
Adhesive Strength	MPa {kgf/cm ² }	1.4 {14}	1.0 {10}	1.5 {15}	1.6 {16}	1.0 {10}	1.2 {12}	1.2 {12}
Linear Expansion	1/K	-	-	-	-	2.1x10 ⁻⁴	2.1x10 ⁻⁴	2.1x10 ⁻⁴
Thermal Conductivity	W/(mK) {cal/(cms °C)}	0.83 {2.0x10 ⁻³ }	0.36 {8.0x10 ⁻⁴ }	0.34 {8.0x10 ⁻⁴ }	0.83 {2.0x10 ⁻³ }	0.18 {4.4x10 ⁻⁴ }	0.18 {4.4x10 ⁻⁴ }	0.18 {4.4x10 ⁻⁴ }
Volume Resistivity	ohm cm	4.0x10 ¹⁴	1.0x10 ¹⁵	1.0x10 ¹⁵	4.0x10 ¹⁴	2.0x10 ¹⁵	2.0x10 ¹⁵	2.0x10 ¹⁵
Dielectric Strength	kV/mm	21	22	22	23	22	21	21
Dielectric Constant	(60Hz)	4.0	3.8	4.5	4.0	2.9	2.9	2.9
Dissipation Factor	(60Hz)	0.04	0.02	0.05	0.04	0.005	0.005	0.005
Remarks		-	UL94 V-0	UL94 V-0	UL94 V-1	-	-	-

Adhesion and Sealing

Adhesion and Sealing Cure Type	1 Part Condensation Cure							
	Alkoxy				Acetoxy			
Product Code	TSE3975	TSE3976-B	XE11-B5320	RTV162	RTV5242 RTV 5243/RTV 5249	IS802/803/808	IS806	
Feature	General Purpose Low Volatility	Heat Resistant Low Volatility	Thermally Conductive Low Volatility	General Purpose	General Purpose	General Purpose	General Purpose	
Property	Flowable	Flowable	Non-Flowable	UL94HB	UL94HB	Non-Flowable UL94HB	Non-Flowable UL94HB	
Viscosity (23°C)	Pas {P}	33 {330}	100 {1000}	-	Non Flowable	-	spreadable paste	
Tack Free Time	min	10	5	5	240	45	25	30
Density (23°C)	g/cm ³	1.05	1.08	2.59	1.09	1.5	1.04	1.05
Hardness	(shore A)	25	30	80	35	40	23	22
Tensile Strength	MPa (kg/cm ²)	1.2 {12}	1.7 {17}	3.6 {37}	3.8 {39}	2.2 {22}	-	1.7{17}
Elongation	%	220	170	40	400	425	450	425
Adhesive Strength	MPa (kg/cm ²)	1.2 {12}	1.8 {18}	1.3 {13}	-	-	1.0 {10}	0.5 {5.4}
Linear Expansion	1/K	-	-	-	27x10 ⁻⁵	-	30x10 ⁻⁵	30x10 ⁻⁵
Thermal Conductivity	W/mK (cal/cm ² °C)	0.21 {5.0x10 ⁻⁴ }	0.18 {4.4x10 ⁻⁴ }	1.3 {3.1x10 ⁻³ }	0.21	-	0.21	0.21
Volume Resistivity	ohm cm	2.0x10 ¹⁵	1.0x10 ¹⁵	2.0x10 ¹⁵	3.0x10 ¹⁵	3.0x10 ¹⁵	2.5x10 ¹⁴	2.2x10 ¹⁴
Dielectric Strength	kV/mm	23	20	17	18	20	20	20
Dielectric Constant	(60Hz)	2.9	3.5	2.6	2.8	2.8	2.9	2.9
Dissipation Factor	(60Hz)	0.005	0.01	0.005	0.001	0.001	0.0026	0.002

Tested at 1kHz

Adhesion and Sealing Cure Type	1 Part Condensation Cure							
	Acetoxy							
Product Code	RTV106	RTV102/103 RTV108/109	RTV116	RTV112/118	RTV157	RTV159	FRV1106	
Feature	Heat Resistant	General Purpose	Heat Resistant	General Purpose	High Strenth	High Strenth	High Strenth	
Property	Non-Flowable	Non-Flowable	Flowable Self-Leveling	Flowable	Non-Flowable	Non-Flowable	Non-Flowable	
Viscosity (23°C)	Pas {P}	Soft, spreadable paste	25 {250}	Red	20 {200}	Paste	Paste	Paste
Tack Free Time	min	20	20	30	20	45	45	20
Density (23°C)	g/cm ³	1.07	1.05	1.09	1.05	1.09	1.09	1.45
Hardness	(shore A)	30	30	20	25	28	28	39
Tensile Strength	MPa (kgf/cm ²)	2.6 {26}	2.8{29}	2.5{25}	2.3{23}	6.9{70}	7.2{73}	3.3{34}
Elongation	%	400	450	350	325	825	825	200
Adhesive Strength	MPa (kgf/cm ²)	1.4	-	0.7	-	-	-	-
Linear Expansion	1/K	27x10 ⁻⁵	27x10 ⁻⁵	27x10 ⁻⁵	27x10 ⁻⁵	27x10 ⁻⁵	27x10 ⁻⁵	-
Thermal Conductivity	W/mK (cal/cm ² °C)	0.21	0.21	0.21	0.21	0.21	0.21	-
Volume Resistivity	ohm cm	3.0x10 ¹⁴	3.1x10 ¹⁵	2.0x10 ¹⁴	6.1x10 ¹⁴	7.5x10 ¹⁴	1.1x10 ¹⁵	-
Dielectric Strength	kV/mm	20	20	16	16	20.7	19.7	-
Dielectric Constant	(60Hz)	2.8	2.8	2.8	2.8	2.9	2.6	-
Dissipation Factor	(60Hz)	0.001	0.001	0.001	0.001	0.0009	0.0007	-

Tested at 1 kHz

Adhesion and Sealing

Adhesion and Sealing	1 Part Condition Cure		1 Part Addition Cure						
	Acetoxу	Heat Cure							
Cure Type									
Product Code	RTV1473	TSE3212	TSE322	TSE322S	TSE3221S	TSE326	TSE326MEX	TSE3260	
Feature	General Purpose	General Purpose	General Purpose	General Purpose	General Purpose	Heat Resistant	General Purpose	Heat Resistant	
Property	Non-Flowable Oil Resistance	Semi-Flowable	Flowable	Non-Flowable	Flowable	Flowable	Flowable	Flowable	
Appearance	Soft paste	White	Light Blue, Black	Light Blue	Translucent	Reddish Brown	Reddish Brown	Reddish Brown	
Viscosity (23°C)	Pas {P}	280 {2800}	180 {1800}	70 {700}	58 {580}	28 {280}	16 {160}	23 {230}	
Cure condition	°C/Hr	25	150/1	150/1	150/1	150/1	200/0.5	150/1	
Density (23°C)	g/cm ³	1.06	1.26	1.27	1.26	1.03	1.45	1.34	
Hardness	(shore A)	30	52	45	37	28	43	35	
Tensile Strength	MPa {kgf/cm ² }	3.1{31}	3.7 {38}	3.4 {35}	3.6 {37}	2.8 {29}	3.4 {35}	2.9 {30}	1.7 {17}
Elongation	%	500	240	230	230	370	170	180	250
Adhesive Strength	MPa {kgf/cm ² }	1.4 {14}	2.6 {26}	2.5 {25}	2.5 {25}	2.5 {25}	2.0 {20}	1.5	0.5 {5}
Linear Expansion	1/K	-	1.9x10 ⁻⁴	1.9x10 ⁻⁴	2.1x10 ⁻⁴	2.1x10 ⁻⁴	1.7x10 ⁻⁴	1.1x10 ⁻⁴	1.9x10 ⁻⁴
Thermal Conductivity	W/(mK) {cal/(cms°C)}	-	0.29 {6.9x10 ⁻⁴ }	0.29 {6.9x10 ⁻⁴ }	0.29 {6.9x10 ⁻⁴ }	0.18 {4.4x10 ⁻⁴ }	0.41 {9.7x10 ⁻⁴ }	0.41	0.18 {4.4x10 ⁻⁴ }
Volume Resistivity	ohm cm	-	2.0x10 ¹⁵	2.0x10 ¹⁵	1.0x10 ¹⁵	6.0x10 ¹⁵	2.0x10 ¹⁵	2.0x10 ¹⁵	1.0x10 ¹⁵
Dielectric Strength	kV/mm	-	20	20	25	23	22	22	25
Dielectric Constant	(60Hz)	-	3.2	3.1	3.1	2.8	3.3	3.3	3.1
Dissipation Factor	(60Hz)	-	0.001	0.006	0.006	0.001	0.02	0.02	0.01
Flame Retardant	-	-	-	UL94V1	-	-	-	UL94HB ULTI 190°C	

Adhesion and Sealing	1 Part Addition Cure					
	Heat Cure					
Cure Type						
Product Code	TSE3261-G	TSE3280-G	TSE3281-G	TSE3282-G	RTV6424	
Feature	Heat Resistant	Thermal Conductive	High Thermal Conductivity	High Thermal Conductivity	General Purpose	
Property	Flowable	Flowable	Flowable	Flowable	Non-Flowable	
Appearance	Gray	Gray	Gray	Gray	White	
Viscosity (23°C)	Pas {P}	80 {800}	60 {600}	20 {200}	Paste	
Tack Free Time	min	150/1	150/1	150/1	150/1	
Density (23°C)	g/cm ³	1.48	2.10	2.70	1.17	
Hardness	(shore A)	54	62	84	30	
Tensile Strength	MPa {kgf/cm ² }	4.9 {50}	3.2 {33}	4.5 {46}	4.0 {41}	4.6 {47}
Elongation	%	160	110	50	50	550
Adhesive Strength	MPa {kgf/cm ² }	1.8 {18}	2.0 {20}	2.5 {25}	2.5 {25}	2.0
Linear Expansion	1/K	1.7x10	2.2x10 ⁻⁴	1.4x10 ⁻⁴	1.4x10 ⁻⁴	-
Thermal Conductivity	W/(mK) {cal/(cms°C)}	0.41 {9.7x10 ⁻⁴ }	0.88 {2.1x10 ⁻³ }	1.68 {4.0x10 ⁻³ }	2.0 {4.8x10 ⁻⁴ }	-
Volume Resistivity	ohm cm	2.0x10 ¹⁵	2.5x10 ¹⁴	4.8x10 ¹⁴	4.8x10 ¹⁴	1.0x10 ¹⁵
Dielectric Strength	kV/mm	22	21	15	23	20
Dielectric Constant	(60Hz)	3.3	4.3	5.2	5.5	2.9
Dissipation Factor	(60Hz)	0.02	0.002	0.002	0.001	0.003

Product List

Adhesion and Sealing

Adhesion and Sealing		2 Part Addition Cure		
		Room Temperature Cure		
Cure Type		TSE3320	TSE3380	LVG342
Product Code		TSE3320	TSE3380	LVG342
Feature		General Purpose	High Thermal Conductivity	Low Volatile
Property		Semi-Flowable	Flowable	Thixo Paste
Appearance		White	Grey	White
Mixing Ratio ((A):(B))		100:100	100:100	10:1
Viscosity (after mixing)	Pas{P}	65 {650}	40 {400}	Thixotropic paste
Pot Life	(23°C) hr	4	8	12
Curing Conditions	°C/Hr	100/1.0	160/0.6	150/1
Density (23°C)	g/cm ³	1.54	2.70	1.19
Hardness	(shore A)	70	70	40
Tensile Strength	MPa {kgf/cm ² }	5.9 {60}	2.6 {26}	4.5 {46}
Elongation	%	100	100	275
Adhesive Strength	MPa {kgf/cm ² }	2.0 {20}	1.6 {16}	-
Linear Expansion	1/K	1.7x10 ⁻⁴	1.4x10 ⁻⁴	-
Thermal Conductivity	W/(mK) {cal/(cms°C)}	0.63 {1.5x10 ⁻⁴ }	1.68 {4.0x10}	-
Volume Resistivity	ohm cm	1.5x10 ¹⁵	2.1x10 ⁶	1.1x10 ¹⁴
Dielectric Strength	kV/mm	23	16	20
Dielectric Constant	(60Hz)	3.3	6.7	-
Dissipation Factor	(60Hz)	0.0007	0.002	-
Frequency Tested		-	-	-

Adhesion and Sealing		2 Part Condensation Cure		
		Room Temperature		
Cure Type		TSE3663	TSE3664	D1-SEA210
Product Code		TSE3663	TSE3664	D1-SEA210
Feature		Low viscosity/ Self Bonding	Flame Retardant	Self Bonding
Property		Flowable	Flowable UL94 V-0	Non-Flowable
Appearance		Off-White	Grey	Dark Grey
Mixing Ratio ((A):(B))		100:2	100:7.5	100:8
Viscosity (after mixing)	Pas{P}	4.0 {40}	3.0 {30}	Thixotropic paste
Tack Free Time	min.	-	-	35
Pot Life	(23°C) hr	0.5	0.1	0.6
Curing Conditions	°C/Hr	23/72	23/72	RT/24
Density (23°C)	g/cm ³	1.19	1.41	-
Hardness	(shore A)	35	65	37
Tensile Strength	MPa {kgf/cm ² }	1.4 {14}	4.0{40}	2.1{21}
Elongation	%	130	-	255
Linear Expansion	1/K	1.9x10 ⁻⁴	0.42 }1.0x10 ^{-3}}	-
Thermal Conductivity	W/(mK) {cal/(cms°C)}	0.29	-	-
Volume Resistivity	ohm cm	1.0x10 ¹⁵	5x10 ¹⁵	-
Dielectric Strength	kV/mm	20	26	-
Dielectric Constant	(60Hz)	3.1	3.1	-
Dissipation Factor	(60Hz)	0.025	0.01	-

Coating Silicones

Coating Silicones	1 Part Condensation Cure							
	Alkoxy							
Cure Type								
Product Code	TSE3941M	TSE3944	TSE397	TSE3971	TSE3972	TSE3975	TSE3976-B	
Feature	General Purpose	Flame Retardant Low Volatility	Fast Cure	Fast Cure	Fast Tack Free	Low Volatility	Heat Resistant Low Volatility	
Property	Flowable	Paste	Semi-Flowable	Semi-Flowable	Flowable	Flowable	Flowable	
Viscosity (23°C)	Pas {P}	50 {500}	-	50 {500}	100 {1000}	50 {500}	33 {330}	100 {1000}
Tack Free Time	min	5	5	10	10	5	10	5
Density (23°C)	g/cm ³	1.64	1.31	1.04	1.04	1.04	1.05	1.08
Hardness	(shore A)	63	38	20	16	15	25	30
Tensile Strength	MPa {kgf/cm ² }	3.2 {33}	1.5 {15}	1.2 {12}	1.5 {15}	1.3 {13}	1.2 {12}	1.7 {17}
Elongation	%	70	170	360	350	350	220	170
Adhesive Strength	MPa {kgf/cm ² }	1.4 {14}	1.0 {10}	1.0 {10}	1.2 {11}	1.2 {10}	1.2 {12}	1.8 {18}
Linear Expansion	1/K	-	-	2.1x10 ⁻⁴	2.1x10 ⁻⁴	2.1x10 ⁻⁴	-	-
Thermal Conductivity	W/(mK) {cal/(cm ² °C)}	0.83 {2.0x10 ⁻³ }	0.36 {8.0x10 ⁻⁴ }	0.18 {4.4x10 ⁻⁴ }	0.18 {4.4x10 ⁻⁴ }	0.18 {4.4x10 ⁻⁴ }	0.21 {5.0x10 ⁻⁴ }	0.18 {4.4x10 ⁻⁴ }
Volume Resistivity	ohm cm	4.0x10 ¹⁴	1.0x10 ¹⁵	2.0x10 ¹⁵	2.0x10 ¹⁵	2.0x10 ¹⁵	2.0x10 ¹⁵	1.0x10 ¹⁵
Dielectric Strength	kV/mm	21	22	22	21	21	23	20
Dielectric Constant	(60Hz)	4.0	3.8	2.9	2.9	2.9	2.9	3.5
Dissipation Factor	(60Hz)	0.04	0.02	0.005	0.005	0.005	0.005	0.01
Flame Retardant	-	UL94 V-0	-	-	-	-	-	UL94HB

Coating Silicones	1 Part Condensation Cure					
	Alkoxy					
Cure Type						
Product Code	TSE399	TSE3991	TSE3995	TSE3996	XE11-A5133S	
Feature	Fast Cure	Ultra Low viscosity	Fast Cure Low Volatility	Fast Cure Low Volatility	Flame Retardant Low Volatility	
Property	Flowable	Flowable	Flowable	Flowable	Flowable	
Viscosity (23°C)	Pas {P}	2.5 {25}	1.5 {15}	2.5 {25}	1.7 {17}	60 {600}
Tack Free Time	min	10	10	10	10	10
Density (23°C)	g/cm ³	1.04	1.03	1.04	1.03	1.64
Hardness	(shore A)	25	19	25	23	63
Tensile Strength	MPa {kgf/cm ² }	1.3 {13}	0.7 {7}	1.3 {13}	1.2 {12}	3.9 {40}
Elongation	%	140	150	140	150	100
Adhesive Strength	MPa {kgf/cm ² }	0.3 {3}	0.2 {2}	0.5 {5}	0.3 {3}	1.3 {13}
Linear Expansion	1/K	-	-	-	-	-
Thermal Conductivity	W/(mK) {cal/(cm ² °C)}	0.18 {4.4x10 ⁻⁴ }	0.18 {4.4x10 ⁻⁴ }	0.18 {4.4x10 ⁻⁴ }	0.18 {4.4x10 ⁻⁴ }	0.83 {2.0x10 ⁻³ }
Volume Resistivity	ohm cm	2.0x10 ¹⁵	2.0x10 ¹⁵	2.0x10 ¹⁵	2.0x10 ¹⁵	4.0x10 ¹⁴
Dielectric Strength	kV/mm	20	18	23	20	20
Dielectric Constant	(60Hz)	2.9	2.9	2.9	2.9	4.0
Dissipation Factor	(60Hz)	0.005	0.005	0.005	0.005	0.04
Flame Retardant	-	-	-	-	-	UL94 V-1

Product List

Coating Silicones

Coating Silicones Cure Type	1 Part Addition Cure						
	Heat Cure						
Product Code	TSE3212	TSE3221S	TSE325	TSE3250	TSE3251	TSE3251-C	
Feature	General Purpose	General Purpose	Low Viscosity	Low Viscosity	General Purpose	General Purpose	
Property	Semi-Flowable	Flowable	Flowable	Flowable	Semi-Flowable	Semi-Flowable	
Appearance	White	Translucent	White	Transparent	White	Translucent	
Viscosity (23°C)	Pas {P}	280 {2800}	58 {580}	4.0 {40}	1.3 {13}	8.5 {85}	7.0 {70}
Curing Condition	150/1	150/1	150/1	150/1	150/1	150/1	
Density (23°C)	g/cm ³	1.26	1.03	1.02	0.97	1.02	1.02
Hardness	(shore A)	52	28	12	12	16	16
Tensile Strength	MPa {kgf/cm ² }	3.7 {38}	2.8 {29}	0.7 {7}	-	0.7 {7}	0.7 {7}
Elongation	%	240	370	200	-	200	200
Adhesive Strength	MPa {kgf/cm ² }	2.6 {26}	2.5 {25}	0.4 {4}	0.1 {1}	0.4 {4}	0.4 {4}
Linear Expansion	1/K	1.9x10 ⁻⁴	2.1x10 ⁻⁴	2.1x10 ⁻⁴	2.5x10 ⁻⁴		
Thermal Conductivity	W/(mK) {cal/(cms°C)}	0.29 {6.9x10 ⁻⁴ }	0.18 {4.4x10 ⁻⁴ }	0.18 {4.3x10 ⁻⁴ }	0.17 {4.1x10 ⁻⁴ }	0.18 {4.3x10 ⁻⁴ }	0.18 {4.3x10 ⁻⁴ }
Volume Resistivity	ohm cm	2.0x10 ¹⁵	6.0x10 ¹⁵	2.0x10 ¹⁵	2.0x10 ¹⁵	2.0x10 ¹⁵	2.0x10 ¹⁵
Dielectric Strength	kV/mm	20	23	21	21	20	20
Dielectric Constant	(60Hz)	3.2	2.8	2.9	2.8	2.8	2.8
Dissipation Factor	(60Hz)	0.001	0.001	0.001	0.001	0.002	0.001

Coating Silicones Cure Type	1 Part Addition Cure		2 Part Addition Cure			
	Heat Cure					
Product Code	TSE3251H	TSE3251H-C	TSE3033	TSE3331	TSE3331K-EX	
Feature	General Purpose	General Purpose	Self Bonding	Flame Retardant	Flame Retardant	
Property	Semi-Flowable	Semi-Flowable	Flowable	Flowable	Flowable	
Appearance	White	Translucent	Transparent	Gray	Black	
Viscosity (23°C)	Pas {P}	13 {130}	13 {130}	13 {130}		
Pot Life	(25°C) hr		6	13 {130} ^B	13 {130} ^H	
Curing Condition	150/1	150/1	150/0.5	120/1	120/1	
Density (23°C)	g/cm ³	1.03	1.03	1.01	1.51	1.43
Hardness	(shore A)	17	17	30	60	50
Tensile Strength	MPa {kgf/cm ² }	1.0 {10}	1.0 {10}	1.0 {10}	2.9 {30}	3.0 {30}
Elongation	%	220	220	130	50	270
Adhesive Strength	MPa {kgf/cm ² }	0.6 {6}	0.6 {6}	0.3 {3} (glass)	1.3 {13}	3.9 {40}
Linear Expansion	1/K	2.1x10 ⁻⁴	2.1x10 ⁻⁴	2.3x10 ⁻⁴	1.7x10 ⁻⁴	
Thermal Conductivity	W/(mK) {cal/(cms°C)}	0.18 {4.3x10 ⁻⁴ }	0.18 {4.3x10 ⁻⁴ }	0.17 {4.1x10 ⁻⁴ }	0.63 {1.5x10}	0.53 {1.3x10 ⁻³ }
Volume Resistivity	ohm cm	2.0x10 ¹⁵	2.0x10 ¹⁵	2.0x10 ¹⁵	2.0x10 ¹⁴	6.0x10 ¹⁵
Dielectric Strength	kV/mm	20	20	21	26	22
Dielectric Constant	(60Hz)	2.8	2.8	2.8	3.4	3.1
Dissipation Factor	(60Hz)	0.001	0.001	0.001	0.017	0.015

Potting Silicones

Potting Gels	1 Part Gels		2 Part Gels				
	Addition Cure		Addition Cure				
Product Code	TSE3051	TSE3062	XE14-B7393	TSE3070	TSE3080	TSE3081	
Feature	Heat Cure	General Purpose	Low Volatility	High Elongation	Thermal Conductivity	High Thermal Conductivity	
Appearance	Transparent	Transparent	Transparent	Transparent	Black	Black	
Mixing Ratio (A/B)	-	100:100	100:100	100:100	100:100	100:100	
Viscosity (after mixing)	Pas(P)	0.7 {7}	1.0 {10}	6.5 {65}	0.8 {8}	7.0 {70}	20.0 {200}
Pot Life (23°C)	min	-	60	30	4	3	3
Curing Conditions	°C/Hr	0.97	70/0.5	23/24	70/0.5	1/100	1/100
Penetration	0.1 mm	125/2	55	100	65	-	-
Density (23°C)	g/cm ³	85	0.97	0.97	0.98	1.5	2.5
Volume Expansion	1/K	1.0x10 ⁻³	1.0x10 ⁻³	1.0x10 ⁻³	1.0x10 ⁻³	-	-
Thermal Conductivity	W/(mK) (cal/cm ² °C)	0.17	0.17 {4.1x10 ⁻⁴ }	0.17	0.17 {4.1x10 ⁻⁴ }	0.63 {1.5x10 ⁻³ }	1.26 {3.0x10 ⁻³ }
Volume Resistivity	ohm cm	1x10 ¹⁵	2.0x10 ¹⁵	2.0x10 ¹⁵	1.0x10 ¹⁵	1.0x10 ¹⁵	1.0x10 ¹⁵
Dielectric Strength	kV/mm	18	18	18	18	22	22
Dielectric Constant	(60Hz)	2.8	2.7	2.7	2.7	3.3	5.0
Dissipation Factor	(60Hz)	0.001	0.001	-	0.002	0.04	0.003

Potting Rubber	1 Part Rubber							
	Addition Cure		Alkoxy					
Product Code	TSE325	TSE3250	TSE399	TSE3991	TSE3995	TSE3996	XE11-A5133S	
Feature	Low Viscosity	General Purpose	Fast Cure	Ultra Low viscosity	Fast cure Low Volatility	Fast cure Low Volatility	Flame Retardant Low Volatility	
Property	Flowable	Flowable	Flowable	Flowable	Flowable	Flowable	Flowable	
Viscosity (23°C)	Pas (P)	4.0 {40}	1.3 {13}	2.5 {25}	1.5 {15}	2.5 {25}	1.7 {17}	60 {600}
Tack Free Time	min	150/1	150/1	10	10	10	10	10
Density (23°C)	g/cm ³	1.02	0.97	1.04	1.03	1.04	1.03	1.64
Hardness	(shore A)	12	9	25	19	25	23	63
Tensile Strength	MPa (kgf/cm ²)	0.7 {7}	-	1.3 {13}	0.7 {7}	1.3 {13}	1.2 {12}	3.9 {40}
Elongation	%	200	-	140	150	140	150	100
Adhesive Strength	MPa (kgf/cm ²)	0.4 {4}	0.1 {1}	0.3 {3}	0.2 {2}	0.5 {5}	0.3 {3}	1.3 {13}
Linear Expansion	1/K	2.1x10 ⁻⁴	2.5x10 ⁻⁴	-	-	-	-	-
Thermal Conductivity	W/(mK) (cal/cm ² °C)	0.18 {4.3x10 ⁻⁴ }	0.17 {4.1x10 ⁻⁴ }	0.18 {4.4x10 ⁻⁴ }	0.18 {4.4x10 ⁻⁴ }	0.18 {4.4x10 ⁻⁴ }	0.18 {4.4x10 ⁻⁴ }	0.83 {2.0x10 ⁻³ }
Volume Resistivity	ohm cm	2.0x10 ¹⁵	2.0x10 ¹⁵	2.0x10 ¹⁵	2.0x10 ¹⁵	2.0x10 ¹⁵	2.0x10 ¹⁵	4.0x10 ¹⁴
Dielectric Strength	kV/mm	21	21	20	18	23	23	20
Dielectric Constant	(60Hz)	2.9	2.8	2.9	2.9	2.9	2.9	4.0
Dissipation Factor	(60Hz)	0.001	0.001	0.005	0.005	0.005	0.005	0.04
Remarks	-	-	-	-	-	-	-	UL94 V-1

Product List

Potting Silicones

Potting Rubber Cure Type	2 Part Rubber					
	Addition Cure					
Product Code	RTV6428	RTV615	RTV655	RTV6166	RTV6196	
Feature	Flame Retardant	General Purpose	Low Temperature Resistant	General Purpose Gel	General Purpose Gel	
Property	Flowable	Flowable	Flowable	Flowable	Flowable	
Appearance	Dark Grey	Clear	Clear	Clear	Clear	
Mixing Ratio ((A):(B))	1:1	10:1	10:1	1:1	1:1	
Viscosity (after mixing)	Pas{P}	1.3 {13}	4 {40}	5.2 {52}	0.75 {7.5}	0.75 {7.5}
Pot Life	min.	4	240	240	120	15
Curing Conditions	°C/Hr	100/1	100/1	100/1	150/0.5	150/0.5
Density (23°C)	g/cm ³	-	1.02	1.04	0.98	0.98
Hardness	(shore A)	62	44	45	-	-
Tensile Strength	MPa {kgf/cm ² }	3.3 {34}	6.5 {66}	6.5 {66}	-	-
Elongation	%	60	120	120	-	-
Adhesive Strength	MPa {kgf/cm ² }	-	-	-	-	-
Linear Expansion	1/K	21.6x10 ⁻⁵	27.0x10 ⁻⁵	33x10 ⁻⁵	27x10 ⁻⁵	27x10 ⁻⁵
Thermal Conductivity	W/(mK) {cal/(cms°C)}	0.31	0.2	0.2	0.19	0.19
Volume Resistivity	ohm cm	5.7x10 ¹⁴	1.8x10 ¹⁵	1.2x10 ¹⁵	1.0x10 ¹⁵	1.0x10 ¹⁵
Dielectric Strength	kV/mm	20.9	19.7	19.7	20	20
Dielectric Constant	(60Hz)	3.09	2.7	2.7	2.8	2.8
Dissipation Factor	(60Hz)	0.0061	0.0006	0.0004	0.001	0.001
Frequency Tested		1kHz	1kHz	1kHz	1kHz	1kHz

Potting Rubber Cure Type	2 Part Rubber				
	Condensation Cure				
Product Code	RTV60	RTV88	RTV560	RTV567	
Feature	High Temperature	High Temperature	Low Temperature Resistant	Low Outgassing	
Property	Flowable	Spreadable paste	Flowable	Flowable	
Appearance	Red	Red	Red	Translucent	
Mixing Ratio ((A):(B))	-	-	100:0.5	100:0.1	
Viscosity (after mixing)	Pas{P}	47 {470}	880 {8800}	30 {300}	3.9 {39}
Tack Free Time	min.	-	-	-	1260
Pot Life	(25°C) hr	2	0.75	2.25	9
Curing Conditions	°C/Hr	RT/24	RT/24	25/24	RT/168
Density (23°C)	g/cm ³	1.48	1.47	1.42	1
Hardness	(shore A)	57	58	55	20
Tensile Strength	MPa {kgf/cm ² }	7.0 {71}	6.0 {60}	4.8 {49}	-
Elongation	%	120	120	120	-
Linear Expansion	1/K	20x10 ⁻⁵	20x10 ⁻⁵	20x10 ⁻⁵	25x10 ⁻⁵
Thermal Conductivity	W/(mK) {cal/(cms°C)}	0.31	0.31	0.31	0.29
Volume Resistivity	ohm cm	4.4x10 ¹⁴	2.8x10 ¹⁴	2.0x10 ¹⁴	1.1x10 ¹⁵
Dielectric Strength	kV/mm	17.7	17.4	21.2	20.3
Dielectric Constant	(60Hz)	4.0	4.3	3.9	3.3
Dissipation Factor	(60Hz)	0.02	0.03	0.02	0.006
Frequency Tested		-	-	1kHz	1kHz

Potting Silicones

Potting Rubber Cure Type	2 Part Rubber								
	Addition Cure						Condensation Cure		
Product Code	TSE3032	TSE3033	TSE3331	TSE3331K-EX	TSE3431-H	XE14-B7892	TSE3663	TSE3664	
Feature	General Purpose	Self Bonding	Flame Retardant	Flame Retardant	Flame Retardant	Flame Retardant	Self Bonding	Flame Retardant	
Property	Flowable	Flowable	Flowable	Flowable	Flowable	Flowable	Flowable	Flowable UL94 V-0	
Appearance	Transparent	Transparent	Gray	Black	Black	Black	Off-White	Grey	
Mixing Ratio ((A):(B))	100:10	100:100	100:100	100:100	100:10	100:100	100:2	100:7.5	
Viscosity (after mixing)	Pas{p}	4.0 {40}	1.0 {10}	3.5 {35}	3.0 {30}	4.0 {40}	1.3 {13}	4.0 {40}	3.0 {30}
Pot Life	(23°C) hr	4	6	8	4	1.5	2	0.5	0.1
Curing Conditions	°C/Hr	100/1	150/0.5	120/1	120/1	100/1	60/1	23/72	23/72
Density (23°C)	g/cm ³	1.02	1.01	1.51	1.43	1.52	1.39	1.19	1.41
Hardness	(shore A)	35	30	60	50	74	60	35	65
Tensile Strength	MPa {kgf/cm ² }	4.5 {46}	1.0 {10}	2.9 {30}	3.0 {30}	4.1 {42}	3.5 {36}	1.4 {14}	4.0{40}
Elongation	%	210	130	50	270	60	100	130	-
Adhesive Strength	MPa {kgf/cm ² }	-	0.3 {3} (glass)	1.3 {13}	3.9 {40}	-	-	0.9 {9}	-
Linear Expansion	1/K	2.3x10 ⁻⁴	2.3x10 ⁻⁴	1.7x10 ⁻⁴		1.7x10 ⁻⁴	1.9x10 ⁻⁴	1.9x10 ⁻⁴	-
Thermal Conductivity	W/(mK) {cal/(cms°C)}	0.17{4.1x10 ⁻⁴ }	0.17 {4.1x10 ⁻⁴ }	0.63 {1.5x10}	0.53 {1.3x10 ⁻³ }	0.63 {1.5x10 ⁻³ }	0.44 {1.1x10 ⁻³ }	0.29 {6.4x10 ⁻⁴ }	0.42 }1.0x10 ⁻³ }
Volume Resistivity	ohm cm	2.0x10 ¹⁵	2.0x10 ¹⁵	2.0x10 ¹⁴	6.0x10 ¹⁵	5.0x10 ¹⁴	2.5x10 ¹⁵	1.0x10 ¹⁵	5x10 ¹⁵
Dielectric Strength	kV/mm	21	21	26	22	27	27	20	26
Dielectric Constant	(60Hz)	2.8	2.8	3.4	3.1	3.5	3.1	3.1	3.1
Dissipation Factor	(60Hz)	0.001	0.001	0.017	0.015	0.01	0.01	0.025	0.01
Remarks	Non-Adhesive	Adhesive	UL94 V-0 Adhesive	Adhesive	UL94 V-0 Non-Adhesive	UL94 V-0 Non-Adhesive	-	-	-

Potting Rubber Cure Type	2 Part Rubber								
	Condensation Cure								
Product Code	TSE350	RTV11	RTV511	RTV566	RTV577	RTV8111	RTV8112	RTV8262	
Feature	General Purpose	General Purpose	Low Temperature Resistant	Low Outgassing	Low Temperature Resistant	MIL-S-23586 E	MIL-S-23586 E	MIL-S-23586 E	
Property	Flowable	Flowable	Flowable	Flowable	Paste	Flowable	Flowable	Flowable	
Appearance	Stone White	White	White	Red	white	white	white	red	
Mixing Ratio ((A):(B))	100:0.5*	100:0.5	100:0.5	100:0.1	100:0.5	100:2	100:5	100:5	
Viscosity (after mixing)	Pas{p}	12 {120}	11 {110}	16 {160}	42.7 {427}	700 {7000}	9.9 {99}	11 {110}	47 {470}
Pot Life	(25°C) hr	1	1.5	1.5	1.5	2	0.5	2	2
Curing Conditions	°C/Hr	23/72	25/24	25/24	RT/24	25/24	25/24	25/24	25/24
Density (23°C)	g/cm ³	1.18*	1.19	1.21	1.49	1.35	1.18	1.19	1.47
Hardness	(shore A)	47	41	42	61	48	45	42	52
Tensile Strength	MPa {kgf/cm ² }	2.5 {25}	3.6 {36}	2.7 {28}	5.6 {57}	3.1 {32}	2.5 {25}	2.1 {21}	4.1{42}
Elongation	%	170	190	170	120	150	160	160	150
Adhesive Strength	MPa {kgf/cm ² }	-	-	-	-	-	-	-	-
Linear Expansion	1/K	-	25x10 ⁻⁵	22x10 ⁻⁵	20x10 ⁻⁵	20x10 ⁻⁵	25x10 ⁻⁵	25x10 ⁻⁵	20x10 ⁻⁵
Thermal Conductivity	W/(mK) {cal/(cms°C)}	-	0.29	0.26	0.31	0.31	0.29	0.29	0.31
Volume Resistivity	ohm cm	1.0x10 ¹⁴	1.0x10 ¹⁵	2.0x10 ¹⁴	2.0x10 ¹⁴	5.6x10 ¹⁴	1.0x10 ¹⁵	2.7x10 ¹⁵	4.4x10 ¹⁴
Dielectric Strength	kV/mm	22	20.3	20.5	21.2	18.5	19.7	18.7	18.5
Dielectric Constant	(60Hz)	3.1	3.3	3.6	3.9	3.9	3.3	4.02	3.98
Dissipation Factor	(60Hz)	0.025	0.006	0.005	0.02	0.02	0.0055	0.007	0.017
Frequency Tested		-	1kHz	1kHz	1kHz	1kHz	1kHz	1kHz	1kHz

*Tested at 23°C

Product List

Silicone Junction Coatings

Silicone Junction Coatings	1 Part Materials					
	Addition Cure					
Cure Type						
Product Code	TSJ3155	TSJ3156	TSJ3185	TSJ3186	TSJ3187	
Feature	Thixotropic	Thixotropic	Gel	Gel	Junction Coating	
Property	Semi-Flowable	Semi-Flowable	Semi-Flowable	Semi-Flowable	Gel Semi-Flowable	
Appearance	White	Translucent	Translucent	Translucent	Translucent	
Viscosity (23°C)	Pas {P}	6 {60}	6 {60}	3 {30}	4 {40}	10 {100}
Curing Conditions	°C/Hr	150/4	150/4	150/4	150/6	150/4
Density (23°C)	g/cm ³	1.02	1.01	1.01	1.05	1.00
Hardness	(shore A)	10	20	-	-	40
Cubic Expansion	1/K	2.3x10		1.1x10 ⁻³	1.1x10 ⁻³	1.1x10 ⁻³
Thermal Conductivity	W/(mK) {cal/(cms°C)}	0.18 {4.3x10 ⁻⁴ }	0.18 {4.3x10 ⁻⁴ }	0.18	0.18	0.18
Volume Resistivity	ohm cm	1.0x10 ¹⁵	1.0x10 ¹⁵	1.05x10 ¹⁵	1.5x10 ¹⁵	1.5x10 ¹⁵
Dielectric Strength	kV/mm	20	20	15	15	21
Dielectric Constant	(60Hz)	2.8	2.7	2.7	2.8	2.7
Dissipation Factor	(60Hz)	0.001	0.001	0.001	0.0004	0.0006
Na ⁺ K ⁺		Less than 2	Less than 2	-	-	-
Frequency Tested		-	-	60Hz	60Hz	60Hz

Silicone Junction Coatings	2 Part Materials		
	Addition Cure		
Product Code	TSJ3175	XE14-B5778	
Feature	Gel	Semi-Flowable	
Appearance	Black	Transparent	
Mixing Ratio (A B)	100:100	100:100	
Viscosity (after mixing)	Pas{P}	10 {100}	14 {140}
Pot Life (23°C)	Hr	12	8
Curing Conditions	°C/Hr	125/2	80/2
Density (23°C)	g/cm ³	1.00	1.02
Hardness	(shore A)	-	16
Penetration	1/10mm	70	-
Linear Expansion	1/K	1.0x10 ^{-5*}	2.3x10 ⁻⁴
Thermal Conductivity	W/(mK) {cal/(cms°C)}	0.18 {4.3x10 ⁻⁴ }	0.18 {4.3x10 ⁻⁴ }
Volume Resistivity	ohm cm	1.0x10 ¹⁵	2.0x10 ⁵
Dielectric Strength	kV/mm	15	24
Dielectric Constant	(60Hz)	2.8	2.7
Dissipation Factor	(60Hz)	0.0004	0.001
Na ⁺ K ⁺		Less than 2	Less than 2

*cubic expansion

Heat Conductive Silicones

Heat Conductive Silicones	1 Part Condensation Cure					
	Alkoxy					
Cure Type						
Product Code	TSE3941	TSE3941M	TSE3946	XE11-A5133S	XE11-B5320	
Feature	Flame Retardant	General Purpose	Flame Retardant Low Volatility	Flame Retardant Low Volatility	Flame Retardant Low Volatility	
Property	Non-Flowable	Flowable	Non-Flowable	Flowable	Non-Flowable	
Viscosity (23°C)	Pas {P}	-	50 {500}	-	60 {600}	-
Tack Free Time	min	5	5	5	10	5
Density (23°C)	g/cm ³	1.65	1.64	1.70	1.64	2.59
Hardness	(shore A)	60	63	68	63	83
Tensile Strength	MPa {kgf/cm ² }	2.9 {30}	3.2 {33}	3.9 {40}	3.9 {40}	4.1 {41}
Elongation	%	100	70	100	100	50
Adhesive Strength	MPa {kgf/cm ² }	1.4 {14}	1.4 {14}	1.6 {16}	1.3 {13}	1.4 {14}
Linear Expansion	1/K	1.6x10 ⁻⁴	-	-	-	1.9x10 ⁻⁴
Thermal Conductivity	W/(mK) {cal/(cm·s·°C)}	0.83 {2.0x10 ⁻³ }	0.83 {2.0x10 ⁻³ }	0.83 {2.0x10 ⁻³ }	0.83 {2.0x10 ⁻³ }	1.24 {3.0x10 ⁻³ }
Volume Resistivity	ohm cm	4.0x10 ¹⁴	4.0x10 ¹⁴	4.0x10 ¹⁴	4.0x10 ¹⁴	2.0x10 ¹⁵
Dielectric Strength	kV/mm	22	21	23	20	17
Dielectric Constant	(60Hz)	4.0	4.0	4.0	4.0	2.6
Dissipation Factor	(60Hz)	0.04	0.04	0.04	0.04	0.005
Remarks	UL94 V-1	-	UL94 V-1	UL94 V-1	-	-

Heat Conductive Silicones	1 Part Addition Cure			2 Part Addition Cure					
	Heat			Heat					
Cure Type									
Product Code	TSE3280-G	TSE3281-G	TSE3282-G	TSE3331	TSE3331K-EX	TSE3380	TSE3080	TSE3081	
Feature	Thermal Conductivity	High Thermal Conductivity	High Thermal Conductivity	Flame Retardant	Flame Retardant	High Thermal Conductivity	High Thermal Conductivity	High Thermal Conductivity	
Property	Flowable	Flowable	Flowable	Flowable	Flowable	Flowable	Flowable	Flowable	
Appearance	Gray	Gray	Gray	Gray	Black	Gray	Black	Black	
Mixing Ratio (A):(B)	-	-	-	100:100	100:100	100:100	100:100	100:100	
Viscosity (after mixing)	Pas{p}	60 {600}	60 {600}	20 {200}	3.5 {35}	3.0 {30}	40 {400}	7.0 {70}	20.0 {200}
Pot Life	Hr	-	-	-	8	4	8	3	3
Curing Conditions	°C/Hr	150/1	150/1	150/1	120/1	120/1	150/0.5	1/100	1/100
Density (23°C)	g/cm ³	2.10	2.70	2.70	1.51	1.43	2.70	1.5	2.5
Hardness	(shore A)	62	84	80	60	50	70	25	10
Tensile Strength	MPa {kgf/cm ² }	3.2 {33}	4.5 {46}	4.0 {41}	2.9 {30}	3.0 {30}	2.5 {25}	-	-
Elongation	%	110	50	50	70	270	100	-	-
Adhesive Strength	MPa {kgf/cm ² }	2.0 {20}	2.5 {25}	2.5 {25}	1.3 {13}	3.9 {40}	1.5 {15}	-	-
Linear Expansion	1/K	2.2x10 ⁻⁴	1.4x10 ⁻⁴	1.4x10 ⁻⁴	1.7x10 ⁻⁴	-	1.4x10 ⁻⁴	-	-
Thermal Conductivity	W/(mK) {cal/(cm·s·°C)}	0.89 {2.1x10 ⁻³ }	1.68 {4.0x10 ⁻³ }	2.0 {4.8x10 ⁻³ }	0.63 {1.5x10 ⁻³ }	0.53 {1.3x10 ⁻³ }	1.68 {4.0x10 ⁻³ }	0.63 {1.5x10 ⁻³ }	1.26 {3.0x10 ⁻³ }
Volume Resistivity	ohm cm	2.5x10 ¹⁴	4.8x10 ¹⁴	4.8x10 ¹⁴	2.0x10 ¹⁴	6.0x10 ¹⁵	2.1x10 ¹⁴	1.0x10 ¹⁵	1.0x10 ¹⁵
Dielectric Strength	kV/mm	21	15	23	26	22	15	22	22
Dielectric Constant	(60Hz)	4.3	5.2	5.5	3.4	3.1	5.7	3.3	5.0
Dissipation Factor	(60Hz)	0.002	0.002	0.001	0.017	0.015	0.002	0.04	0.003
Frequency Tested		-	-	-	UL94 V-0	Adhesive	-	-	-

Product List

Heat Conductive Silicone Grease

Heat Conductive Silicones	Silicone Grease					
Cure Type						
Product Code	YG6111	YG6240	YG6260	YG6260V	TSK5303	
Feature	Low Volatility	Low Bleed Low Volatility	Good Paintability	High Thermal Conductivity Low Volatility	Heat Resistant Low Volatility	
Appearance	White	White	White	White	White	
Density (23°C)	g/cm ³	2.45	2.46	2.50	2.62	2.46
Thermal Conductivity	W/(m K) (cal/(cms ² C))	0.84 {2.0x10 ⁻³ }	0.84 {2.0x10 ⁻³ }	0.84 {2.0x10 ⁻³ }	1.00 {2.4x10 ⁻³ }	0.84 {2.0x10 ⁻³ }
Volume Resistivity	ohr cm	2.0x10 ¹⁴	2.0x10 ⁶	2.0x10 ¹⁴	3.0x10 ⁶	1.5x10 ¹⁴
Dielectric Constant	(60Hz)	5.4	5.0	5.0	5.0	5.0
Dissipation Factor	(60Hz)	0.005	0.006	0.005	0.006	0.005
Penetration	(JISK2220)	310	290	300	340	330
Bleed	%(150 °C, 24h)	0.5	0.0	0.2	0.1	2.1 ¹⁾
Evaporation	%(150 °C, 24h)	0.4	0.4	0.2	0.1	0.4 ¹⁾
Remarks	-	-	-	-	-	-

Typical property data values should not be used as specifications.

1) 200°C, 24Hr.

Low Volatility Grades

Low Molecular Weight Siloxane Content

Type	Product Code	Low Molecular Siloxane (D ₃ -D ₁₀) wt%
1 Part Condensation Cure	TSE3925	0.028
	TSE3944	0.028
	TSE3945	0.025
	TSE3946	0.025
	TSE3975	0.028
	TSE3976-B	0.025
	TSE3995	0.028
	TSE3996	0.028
	XE11-A5133S	0.025
	XE11-B5320	0.020
Grease	YG6111	0.010
	YG6240	0.003
	YG6260	0.003
	YG6260V	0.010
	TSK5303	0.0015

Low molecular weight siloxane refers to cyclic dimethyl polysiloxane that due to its volatility, sublimates during and after cure. Low molecular weight siloxane is known to cause electrical point interference. Low volatility grades are developed to limit the levels of low molecular weight siloxane.

Test Method: Gas Chromatography
 Equipment: Capillary Gas Chromatograph
 Hewlett-Packard HP 6890
 Column Temperature: 40°C - 310°C
 Injection Temperature: 260°C
 Injection Amount: 1 micron 1
 Extraction Menstruum: n-hexane

UL Status

The following products are recognized by Underwriters Laboratories Inc.

File No. E56745 and File No. E36952

Type	Product Code	Color	Minimum Thickness mm	Temperature °C		HWI (PLC)	UL94 Flame Class	HAI (PLC)	HVTR (PLC)	D495 (PLC)	CTI (PLC)
				Elec.	Mech.						
ONE PART	IS802	White	1.2 only	105	105	4	HB	0	0	5	0
	IS803	Black	1.2 only	105	105	4	HB	0	0	5	0
	IS806	Red	1.9 only	105	105	-	HB	-	-	-	-
	IS808	Translucent	1.2 only	105	105	4	HB	0	0	5	0
	RTV160	White	0.75	105	105	4	HB	0	-	-	-
	RTV160	White	1.5	105	105	3	HB	0	-	-	-
	RTV160	White	2.5	105	105	3	HB	0	1	1	0
	RTV160	White	3.0	105	105	-	HB	-	-	-	-
	RTV162	White	0.91	105	105	-	HB	0	-	-	-
	RTV162	White	1.5	105	105	3	HB	0	-	-	-
	RTV162	White	3.0	105	105	2	HB	0	0	5	0
	RTV5242	White	1.5	105	105	3	HB	0	-	-	-
	RTV5242	White	3.0	105	105	3	HB	0	0	5	0
	RTV5243	Black	1.5	105	105	3	HB	0	-	-	-
	RTV5243	Black	3.0	105	105	3	HB	0	0	5	0
	RTV5249	Gray	1.5	105	105	3	HB	0	-	-	-
	RTV5249	Gray	3.0	105	105	3	HB	0	0	5	0
	TSE3854D-G	Gray	0.75	105	105	0	94V-0	0	-	-	-
	TSE3854D-G	Gray	1.50	105	105	0	94V-0	0	-	-	-
	TSE3854D-G	Gray	3.0	105	105	0	94V-0	0	0	3	0
	TSE3854D-W	White	1.5	105	105	0	94V-0	3	-	-	-
	TSE3854D-W	White	3.0	105	105	0	94V-0	-	-	-	-
	XE11-A5133S	White	3.0	105	105	-	94V-1	-	-	-	-
	TSE3941	White	0.75	-	-	-	94V-1	-	-	-	-
	TSE3941	White	1.5	105	105	2	94V-1	0	-	-	-
	TSE3941	White	3.0	105	105	1	94V-0	0	0	3	0
	TSE3944-G	Gray	0.75	105	105	-	94V-0	-	-	-	-
	TSE3944-G	Gray	1.5	105	105	0	94V-0	0	-	-	-
	TSE3944-G	Gray	3.0	105	105	0	94V-0	0	0	3	0
	TSE3944-W	White	0.75	105	105	-	94V-1	-	-	-	-
	TSE3944-W	White	1.5	105	105	0	94V-0	0	-	-	-
	TSE3944-W	White	3.0	105	105	0	94V-0	0	0	3	0
	TSE3945	Gray	3.3	105	105	2	94V-0	0	0	1	0
TSE3946	White	3.0	105	105	1	94V-1	0	0	0	0	
TSE3976-B	Black	0.64	-	-	-	94HB	-	-	-	-	
TSE3976-B	Black	1.5	-	-	-	94HB	-	-	-	-	
TSE3976-B	Black	3.0	-	-	-	94HB	-	-	-	-	
TWO PART	D1-SEA210	Gray	2.5 only	105	105	3	HB	0	0	5	0
	TSE3331	Black	1.0	105	105	-	94V-0	-	0	0	0
	TSE3331	Black	1.6	105	105	2	94V-0	0	-	-	-
	TSE3331	Black	2.0	105	105	-	94V-0	-	-	-	-
	TSE3331	Black	3.0	105	105	0	94V-0	0	-	-	-
	TSE3331K*EX	Black	2.5	105	105	-	94V-0	-	-	-	-
	TSE3331K*EX	Black	3.0	105	105	-	94V-0	-	-	-	-
	TSE3431-H	Gray	1.0	105	105	0	94V-0	0	0	1	1
	TSE3431-H	Gray	1.5	105	105	-	94V-0	-	-	-	-
	TSE3431-H	Gray	2.5	105	105	0	94V-0	0	-	-	-
	TSE3431-H	Gray	3.0	105	105	-	94V-0	-	-	-	-
	XE14-B7892	Black	2.0	105	105	-	94V-1	-	-	-	-
	XE14-B7892	Black	3.0	105	105	-	94V-0	-	-	-	-
	TSE3664	Grey	1.0	105	105	-	94V-1	-	-	-	-
	TSE3664	Grey	2.0	105	105	-	94V-0	-	-	-	-
TSE3664	Grey	3.0	105	105	-	94V-0	-	-	-	-	

Product List

1 Part Condensation Cure

Product	Package Color	Color	100g Tube		333ml Cartridge		1kg Can		Can		Pail		Drum	Bttl
			W	C	W	C	W	C	W	C	W	C		C
RTV142		White			06S									
RTV160		White			12C						5GP			
RTV162		White			12C						5GP		55G	
RTV5242		White			12C						5GP		55F	
RTV5243		Black			12C						5GP		55F	
RTV5249		Gray			12C						5GP		55F	
ISO802		White	3TG		12C						5GP		55G	
ISO803		Black			12C						5GP		55G	
ISO808		Translucent			12B						5GP		55G	
ISO806		Red	3TG		12C						5GP		55G	
RTV102		White	12T		12C						5GP		55G	
RTV103		Black	85G		12C						5GP		55G	
RTV108		Translucent			06S						55G		5GP	
RTV109		Aluminum			12B/12C									
RTV112		White	85G		12T						5GP			
RTV118		Translucent	85G		12T						5GP		55G	
RTV1473		Black	3TG		12C						5GP		55G	
TRV157		Grey	3TG		06S								55G	
RTV159		Red	3TG		06S/177G									
FRV1106		Red			06S									
TSE392			○	○		○	○					○	○	
TSE3925			○	○		○	○						○	
TSE397			○	○		○	○		○	(4kg)		○	○	
TSE3971			○			○								
TSE3972				○			○							
TSE3975			○	○		○	○							
TSE399			○	○		○	○		○	○	(4kg)		○	○
TSE3991			○	○		○	○		○				○	
TSE3995			○	○		○	○						○	
TSE3996			○	○		○	○						○	
TSE3854D			(130g) (230g)			○							○	
TSE3941			(150g)			○							○	
TSE3944			(130g)			○								
TSE3945														
TSE3946			(150g)			○								
XE11-A5133S			(150g)			○								
TSE3877-B														
TSE3976-B														
TSE3876														
TSE3941			(150g)			○							○	
TSE3941M			(150g)			○							○	
TSE3946			(150g)			○								
XE11-A5133S			(150g)			○								
XE11-B5320						○								

Color Key: W: White / C: Clear
* TSE3876: Dark Brown

Packaging: 100g Tube (20 per box)
1kg Can (10 cans per box)
100g Bottle (20 per box)

333ml Cartridge (10 x 5 boxes per case)
Can (4 cans per box)
500g Bottle (10 per box)

Silicone Grease

Product	Package Color	Tube	Can	Pail
		W	W	W
YG6111		(200g)	(1kg)	(20kg)
YG6240		(200g)	(1kg)	(20kg)
YG6260		(200g)	(1kg)	(20kg)
YG6260V			(2kg)	
TSK5303			(1kg) (8kg)	

Color Key: W: White
Packaging: 200g Tube (20 per box)
1kg, 2kg Can (10 cans per box)

Legend	
5GP	Pail (40.0LBS-18.16KG)
55F	Drum (540.0LBS-245.16KG)
1GP	Pail (10.0LBS-4.54KG)
5GP	Pail (50.0LBS-22.7KG)
55G	Drum (450.0LBS-204.30KG)
001	Kit (1.0LBS-0.457KG)
002	Kit (2.0LBS-0.908KG)
010	Pail Kit (10.0LBS-4.54KG)
012	Pail Kit (12.1LBS-5.477KG)
018	Pail Kit (18.0LBS-8.17KG)
040	Pail (40.0LBS-18.16KG)
044	Pail Kit (44.0LBS-19.97KG)
080	Pail Kit (80.0LBS-36.32KG)
440	Kit (440.0LBS-199.76KG)
495	Kit (495.0LBS-224.73KG)
06S	Cartridge (0.390LBS-0.177KG)

1 Part Addition Cure

Product	Package	Color	100g Tube		333ml Cartridge		1kg Can		Pail		Drum	Bttl
	Color		W	C	W	C	W	C	W	C		C
RTV6424		White	-		06S							
TSE3051								○		(20kg)		
TSE3051-G												
TSE3212			○		○							
TSE322												
TSE322S												
TSE3221S				○		○		○		○	○	
TSE325					○		○		(18kg)			
TSE3250								○				
TSE3251							○					
TSE3251-C				○				○				
TSE3251H			(140g)		(310ml)	○			○			
TSE3251H-C							○					
TSE326						○			○			
TSE326MEX		Red										
TSE3260		Red										
TSE3261-G								(1.5KG)		(25KG)		
TSE3280-G		Gray										
TSE3281-G		Gray										
TSE3282-G												
TSJ3155												

Color Key: W: White / C: Clear
 * TSE3876: Dark Brown

Packaging: 100g Tube (20 per box)
 1kg Can (10 cans per box)
 100g Bottle (20 per box)

333ml Cartridge (10 x 5 boxes per case)
 Can (4 cans per box)
 500g Bottle (10 per box)

Legend	
5GP	Pail (40.0LBS-18.16KG)
55F	Drum (540.0LBS-245.16KG)
1GP	Pail (10.0LBS-4.54KG)
5GP	Pail (50.0LBS-22.7KG)
55G	Drum (450.0LBS-204.30KG)
001	Kit (1.0LBS-0.457KG)
002	Kit (2.0LBS-0.908KG)
010	Pail Kit (10.0LBS-4.54KG)
012	Pail Kit (12.1LBS-5.477KG)
018	Pail Kit (18.0LBS-8.17KG)
040	Pail (40.0LBS-18.16KG)
044	Pail Kit (44.0LBS-19.97KG)
080	Pail Kit (80.0LBS-36.32KG)
440	Kit (440.0LBS-199.76KG)
495	Kit (495.0LBS-224.73KG)
06S	Cartridge (0.390LBS-0.177KG)

Product List / Technical information

2 Part Condensation and Addition Cure

Type	Product	Color	1kg Can	Can	Pail	Drum	Bottle
Condensation Cure	D1-SEA210	Dark Grey			1GP/5GP/10	55F	
	RTV88	Red		001	012/050		
	RTV60	Red		001	012/050		
	RTV8262	Red			012		
	RTV8111	White		001	012		
	RTV8112	EWhite			012		
	RTV577	White			012		
	RTV567	Red		001			
	RTV566	Translucent		001			
	RTV560	Red			012		
	RTV511	White		001	012		
RTV11	White		001	012/050	500		
Addition Cure	Flame Retardant						
	TSE3331		(A/B: 1kg, 1.5kg ea)	(A/B: 6kg ea)	(A/B: 25kg ea)		
	TSE3431-H		(A: 1kg / B: 2.0, 2.5kg)		(A: 20kg, 25kg)		(B: 100g)
	Heat Resistant						
	XE14-B7892		(A/B: 1kg ea)				
	Thermally Conductive						
	TSE3331		(A/B: 1kg, 1.5kg ea)	(A/B: 6kg ea)	(A/B: 25kg ea)		
	TSE3380		(A/B: 1kg ea)				
	Junction Coating						
	TJ3175						(A/B: 500g ea)
	XE14-B3445						(A/B: 500g ea)
	XE14-B5778						(A/B: 500g ea)
	Addition Cure						
	TSE3062		(A/B: 1kg ea)	(A/B: 5kg ea)	(A/B: 18kg ea)		
	XE14-B7393		(A/B: 1kg ea)				
	TSE3070		(A/B: 1kg ea)				
	TSE3380		(A/B: 1kg ea)				
	TSE3431		(A: 1kg / B: 1.8kg)		(A: 18kg)		(B: 100g)
	TSE3663		(A: 1kg)		(A: 18kg)		(B: 30g, 500g)
	TSE3032		(A: 1kg)	(A: 15kg)			(B: 100g, 500g)
	TSE3033		(A/B: 1kg ea)		(A/B: 18kg ea)		
RTV6428	Dark Grey		002	100			
RTV615	Clear		01	010/044/5GP	440		
RTV655	Clear		001	010			
RTV6166	Clear		002	018/080			
RTV6196	Clear		002	080			
LVG342	White			040			

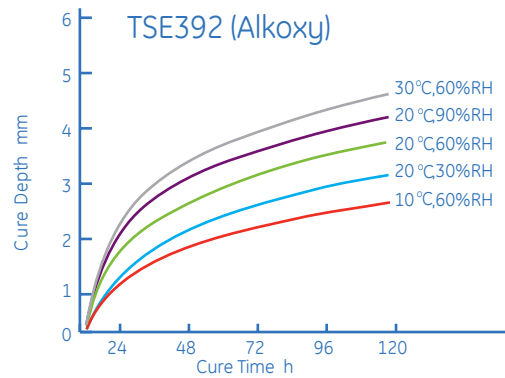
Packaging: 1kg, 1.5kg, 2kg Can (10 cans per box)
 4kg, 5kg, 6kg Can (4 or 2 cans per box)
 10g Bottle (100 per box)
 30g, 100g Bottle (20 per box)
 500g Bottle (10 per box)

Legend

5GP	Pail (40.0LBS-18.16KG)
55F	Drum (540.0LBS-245.16KG)
1GP	Pail (10.0LBS-4.54KG)
5GP	Pail (50.0LBS-22.7KG)
55G	Drum (450.0LBS-204.30KG)
001	Kit (1.0LBS-0.457KG)
002	Kit (2.0LBS-0.908KG)
010	Pail Kit (10.0LBS-4.54KG)
012	Pail Kit (12.1LBS-5.477KG)
018	Pail Kit (18.0LBS-8.17KG)
040	Pail (40.0LBS-18.16KG)
044	Pail Kit (44.0LBS-19.97KG)
080	Pail Kit (80.0LBS-36.32KG)
440	Kit (440.0LBS-199.76KG)
495	Kit (495.0LBS-224.73KG)
06S	Cartridge (0.390LBS-0.177KG)

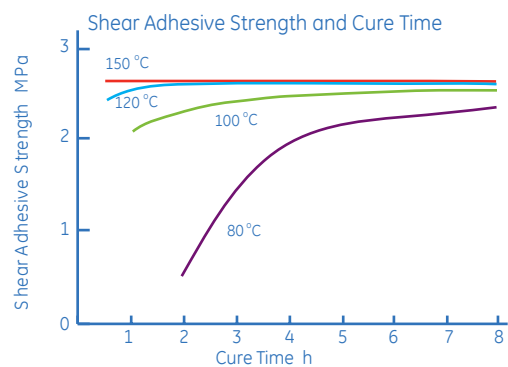
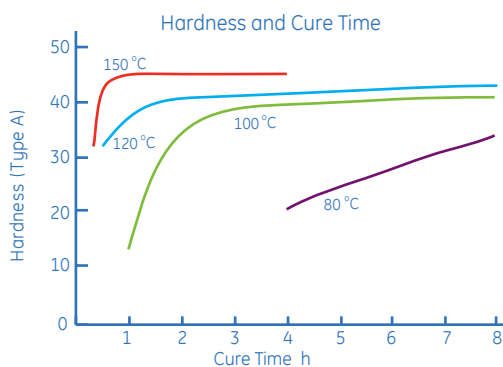
Curing Properties: 1 Part Condensation Cure

One part condensation cure silicone adhesives and sealants cure when exposed to atmospheric moisture. The cure process begins from the outer surface, and therefore time is required for deep section cure. The cure time is affected by the reaction mechanism and viscosity. At 25 °C, 50%RH, it generally requires 10-60 minutes for the surface to become tack free, allowing the workpiece to proceed to the next process. Sufficient adhesion is achieved after 5-15 hours, allowing the workpiece to be moved. Elasticity is achieved after 1-3 days of cure time, and full material properties such as electronic performance is achieved after 7 days.



Curing Properties: Addition Cure

Curing performance of addition cure silicone adhesives and sealants is demonstrated by changes in hardness and adhesion strength of TSE322 at temperatures between 80 and 150°C.



TSE322 shear adhesive strength in relation to temperature / humidity

Test Conditions	Rate of Cohesive Failure %
Initial Measurement 150+°C, 1h	100
80°C, 90RH, 250h	100

