

INSULCAST SILICONES: ADDITION CURE

	Description	Color	Mix Ratio by Weight	Viscosity (mixed, cP)	Cure Cycle	Shore Hardness	Thermal Conductivity (W/m °K)	Dielectric Constant (KHz)	Dielectric Strength (Volts/Mil)	Volume Resistivity (Ohm-cm)	Coefficient of Thermal Expansion (°C)	Service Temperature, (°C)	UL Flammability Rating
RTVS 27	Low viscosity, general purpose compound. RTVS 27 exhibits low temperature flexibility, excellent electrical properties, high temperature resistance and easy removal for component replacement or repair.	Black	1:1	2,900	16hr @ 25°C	60A	0.31	3.00	500	1x10 ¹⁵	22x10 ⁻⁵	-55 to +204	94V-0
RTVS 27 FC	Low viscosity, fast cure compound that has excellent electrical properties. Suitable for Electric Vehicle applications.	Black	1:1	2,900	1 hr @ 25°C	60A	0.31	3.00	514	1x10 ¹⁵	22x10 ⁻⁵	-55 to +204	94V-0
RTVS 27 HTC	Low viscosity compound with high thermal conductivity. This combination makes it ideal for potting dense component packages requiring heat dissipation. Suitable for Electric Vehicle applications.	Black	1:1	6,000	16hr @ 25°C	60A	1.01	4.00	500	1x10 ¹⁵	17x10 ⁻⁵	-55 to +232	94V-0
RTVS 27 LV	General purpose compound.	Dark Gray	1:1	1,200	24hr @ 25°C	60A	0.31	3.40	500	3x10 ¹⁴	22x10 ⁻⁵	-55 to +204	94V-0
RTVS 42 Curtis II	This unique silicone-epoxy copolymer withstands severe thermal shock and eliminates cracking during thermal stress, provides low moisture absorption and has excellent dielectric insulation. It contains silane adhesion promoters that enable it to bond well to most metals and plastics.	Black	100:4.8	16,000	24hr @ 25°C	75A	0.58	4.00	500	1x10 ¹⁵	27x10 ⁻⁵	-40 to +125	94V-0
RTVS 61M	Low viscosity, self-extinguishing compound.	Water clear	100:10 (v)	4,500	16hr @ 25°C	35A	0.19	2.70	500	1x10 ¹⁵	27x10 ⁻⁵	-55 to +204	None
RTVS 8127	Flame retardant compound. The low viscosity and high thermal conductivity make it ideal for potting dense component packages requiring heat dissipation. Suitable for Electric Vehicle applications.	Gray	1:1	4,000	24hr @ 25°C	55A	0.75	4.00	500	1x10 ¹⁵	18x10 ⁻⁵	-55 to +204	94V-0
RTVS 8128	High voltage power supply.	Dark Gray	1:1	2,200	24hr @ 25°C	53A	0.31	3.00	550	1x10 ¹⁵	22x10 ⁻⁵	-55 to +204	Meets 94V-0
RTVS 3-95-1	High thermal conductivity, high temperature compound.	Red	100:5	10,000	16hr @ 25°C	65A	1.44	5.00	500	5x10 ¹⁴	18x10 ⁻⁵	-55 to +260	94V-0
RTVS 3-95-2	High temperature with very high thermal conductivity potting compound. Suitable for Electric Vehicle applications.	Red	1:1	35,000	24hr @ 25°C	85A	1.44	5.00	425	1x10 ¹⁴	15x10 ⁻⁵	-55 to +260	94V-0

INSULCAST SILICONES: CONDENSATION CURE

	Description	Color	Mix Ratio by Weight	Viscosity, (cP)	Shore Hardness	Thermal Conductivity, (W/m °K)	Dielectric Constant, (KHz)	Dielectric Strength, (Volts/Mil)	Volume Resistivity, (Ohm-cm)	Coefficient of Thermal Expansion (°C)	Service Temperature, (°C)	UL Flammability Rating
RTVS 11	Low viscosity, multi-purpose product.	White	0.1 - 0.5% (w)	12,000	45A	0.31	3.40	500	9x10 ¹⁴	25x10 ⁻⁵	-55 to +204	-
RTVS 46	Cures to a flexible syntactic foam.	White	100:5 (w)	40,000	30A	0.26	2.60	250	1x10 ¹⁴	25x10 ⁻⁵	-50 to +204	-
RTVS 51	Low temperature flexible, easily pourable.	White	0.1 - 0.5% (w)	12,000	50A	0.31	3.60	520	2x10 ¹⁴	25x10 ⁻⁵	-115 to +232	-

SILICONE GREASES

	Description	Color	Dielectric Constant, (KHz)	Dielectric Strength, (Volts/Mil)	Volume Resistivity, (Ohm-cm)	Service Temperature, (°C)
SG 146 LV	Offers excellent lubrication on plastic and rubber surfaces. With its high dielectric strength and good hydrolytic stability, it is also water-repellent and radiation resistant.	Semi-transparent	2.90	450	1x10 ¹⁴	-40 to +450

RTVS PRIMERS are used to strengthen adhesion of two component addition cure RTV silicones and mold-making compounds. These primers may be used on metal, wood, glass, ceramics and many plastics. There are 3 primers available: RTVS 44 (Clear), RTVS 41 (Blue), RTVS 40 (Pink-Red). These primers have a mixed viscosity of 1 cP and a flash point of 84 °F.