



TECHNICAL BULLETIN #3087 – RTVS 61M CLEAR, LOW VISCOSITY RTV SILICONE

Revised: 05/2018

PRODUCT DESCRIPTION

RTVS 61M is a low viscosity, self-extinguishing transparent RTVS Silicone. **RTVS 61M** is used in situations where component identification and protection against shock and vibration is needed. Heat can be used to accelerate the cure.

PROPERTIES UNCURED

	Part A	Part B	
COLOR, VISUAL	Clear	Clear	-
VISCOSITY, cps	4,000	5,000	ASTM D 1084
SPECIFIC GRAVITY	1.00	1.00	-
MIX RATIO (by weight)	10:1		-
MIXED VISCOSITY, cps	4,500		ASTM D 1084
SPECIFIC GRAVITY, mixed	1.02		-
POT LIFE @ 25°C, hours	2		-
SHELF LIFE @ 25°C, months	6		-

PROPERTIES CURED

PHYSICAL		
HARDNESS, DUROMETER, Shore A	35	ASTM D 2240
TENSILE STRENGTH, psi	400	ASTM D 412
TENSILE ELONGATION, %	150	ASTM D 412
TEAR STRENGTH, Die B lb/in	25	ASTM D 624
LINEAR SHRINKAGE, %	0.2	-
COEFFICIENT OF THERMAL EXPANSION, °C	27x10 ⁻⁵	-
THERMAL CONDUCTIVITY, BTU-ft/(ft ²)(hr)(°F)	0.11	-
THERMAL CONDUCTIVITY, BTU-in/(ft ²)(hr)(°F)	1.32	-
SERVICE TEMPERATURE, °C	-55 to 204	-

ELECTRICAL

DIELECTRIC STRENGTH, volts/mil	500	ASTM D 149
DIELECTRIC CONSTANT, 1 KHz	2.7	ASTM D 150
DISSIPATION FACTOR, 1 KHz	0.001	ASTM D 150
VOLUME RESISTIVITY, ohm-cm	1.0x10 ¹⁵	ASTM D 257

MIXING INSTRUCTIONS

1. Weigh out amount of **RTVS 61M, Part A**.
2. Measure into Part A 10 parts of Part B for each 100 parts of Part A.
3. Mix thoroughly, scraping both sides and bottom of container.
4. Pour into cavity or unit. **RTVS 61M** will de-gas if left undisturbed for 5-10 minutes.

CURE SCHEDULE

Overnight at room temperature (24 hours at 25°C), or 2 hours at 50°C, or 1 hour at 95°C.

SPECIAL NOTES

Certain materials may inhibit the cure of **RTVS 61M** when placed in contact with the mixed, uncured rubber. Materials such as amines and amine cured epoxies, sulfur containing materials and condensation (tin cured) silicones, are some which may cause inhibition. Even surfaces which have been in contact with such materials may cause it. If in doubt, a patch test should be done.

IMPORTANT:

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HEALTH CAUTION:

Avoid breathing possible fumes, mists and vapors which can cause severe respiratory damage. Use of NIOSH approved breathing apparatus is required for more than minimal exposure. Always work in areas with adequate ventilation to allow dissipation of polyamine and other chemical fumes, and where applicable, solvent fumes. Use of goggles, protective garments, rubber gloves, protective cream is required. If material gets into eyes, flush thoroughly with clean water for twenty (20) minutes; then seek medical treatment. Avoid skin contact. Material can cause contact dermatitis. Always wash exposed areas immediately, using warm water and soap, followed by rinsing with clean water. Observe all safety precautions. It is important when using solvent based materials or solvents to keep away from open flame or ignition source.

PLEASE REFER TO MATERIAL SAFETY DATA SHEET FOR FURTHER FIRST AID INFORMATION. FOR CHEMICAL EMERGENCY, CALL CHEMTREC (DAY OR NIGHT) 800 424-9300.