

RTV 2039 A+B

1. DESCRIPTION

RTV 2039 A+B is a readily pourable heat vulcanizing silicone elastomer, which cures on addition of the catalyst to a resilient rubber.

4. CHARACTERISTICS

a) CONSTITUENTS:

	2039A	2039B
Appearance	Translucent	Pink
Viscosity mPa.s	20,000	10,000
Specific Gravity	1.10	1.10

b) CURED COMPOUND:

Hardness - Shore A	30°C
Tensile Strength MPa	8.0
Elongation at break %	650
Tear Strength KN/M	20
Linear Shrinkage	0.1%
Thermal Conductivity	0.23 Wm ⁻¹ K ⁻¹

c) DIELECTRIC PROPERTIES:

Dielectric Strength KV/mm	18
Dielectric Constant at 1khz	3
Volume Resistivity (Ohm/cm)	7 x 10 ¹³

d) CATALYSATION AND CURE:

The recommended ratio of compound to catalyst is 100 parts by weight of RTV 2039A to 10 parts by weight of RTV 2039B. The catalyst should be mixed into the compound either manually or mechanically, taking care to minimize air entrapment. Excess trapped air can be removed by evacuation of the freshly catalysed system under reduced pressure. Typical degassing conditions are 5-10 minutes at 5-15 mm Hg. It is advisable to use a container which is only about half full to prevent overflow at the pressure is reduced. Intermittent breaking of the vacuum greatly accelerates the degassing process.

e) INHIBITION OF CARE

Great care must be taken when handling and mixing all addition cured silicone elastomer systems, that all mixing vessels, stirrers and spatulas are thoroughly cleaned and constructed of materials which do not interfere with the curing mechanism. The cure of RTV 2039 A+B can be inhibited by the presence of compounds of nitrogen, sulphur, phosphorus an arsenic: organotin catalysts and PVC stabilizers: epoxy resin catalysts and even contact with materials containing certain of these substances e.g. moulding clays, sulphur vulcanized rubbers.

Information contained in this document is the result of careful tests carried out objectively. It has been produced to aid the Buyer, but without implying any commitment on our part. The Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for his intended purpose. Since we cannot control the application, process, or use of these products, we cannot accept responsibility therefore.

RTV 2039 A+B

f) TYPICAL CURE CHARACTERISTICS

RTV 2039 A+B is an addition cure system which can be accelerated by heat. The rate of cure is dependent on the temperature, the thickness of the rubber section and the thermal conductivity of the substrate. Better physical properties are normally achieved by curing at lower temperatures for a longer period, but no significant difference in the properties of the cured rubber have been found with curing conditions ranging from a few days at room temperature to about 1 hour at 100°C.

For a compound catalysed as described above, the following times have been observed for the working time or pot life, the tack-free and cure through.

Temp °C	Pot Life	Cure Time
25°C	2 hours	24 hours
65°C	1 hour	4 hours
100°C	15 minutes	1 hour
150°C	5 minutes	30 minutes

5. PACKING

Packed in 1.1kg, 5.5kg or 27.5kg.

6. HEALTH & SAFETY

(Refer to Health & Safety Data Sheet)

7. SHELF LIFE

RTV 2039 A+B should be stored in their original containers at temperatures below 24°C. It is recommended that the product be used within 6 months of receipt.

Information contained in this document is the result of careful tests carried out objectively. It has been produced to aid the Buyer, but without implying any commitment on our part. The Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for his intended purpose. Since we cannot control the application, process, or use of these products, we cannot accept responsibility therefore.