



PAKCOOL® One-part Moisture-cure Thermally Conductive RTV Silicone Adhesive TC-100-MR

Key Features and Benefits

- One-part moisture cure, easy to operate
- Small irritant odor, no corrosion to metal
- Superior high and low temperatures resistance, excellent weatherability
- Superior chemical and mechanical stability
- Good adhesion to most substrate

Description

PAKCOOL® TC-100-MR is a one-part, room temperature moisture-cured liquid thermal conductive silicone adhesive. After curing, it forms a strong flexible rubber with excellent adhesion to a wide range of substrates. It is designed for bonding applications that require both strength and elasticity. This product is widely used for bonding and sealing various materials, and provides primerless adhesion to most common substrates and the curing form is dealcoholizing type, which will not cause corrosion to metal and nonmetal surfaces.

Applications

Bonding and sealing of electronic components, rubber, metal, glass, etc.

Technical Parameters

Typical Properties	TC-100-MR	Test Methods
Base Material	Silicone RTV-1	/
Color	Black	Visual
State	paste	/
Take Free Time (min @25°C 50%)	5	GB/T 13477.5
Density (g/cm ³)	1.34±0.10	ASTM D792
Hardness (Shore A)	39	ASTM D2240
Tensile strength (MPa)	2.7	GB/T 528
Elongation at break (%)	380	GB/T 528
Shear Strength (MPa)	2.4	Aluminum lap shear
Shelf Life (@< 20°C)	6 months	/

Note: Data is for guidance only and should not be used as product specifications.

Storage & Logistics

- Available in 330 mL cartridge or customized as per customer requirements
- Store in a cool, dry place out of direct sunlight
- Cartridge containing this product should be placed horizontally to reduce precipitation and separation

Method of use

- Thoroughly clean the substrate with a suitable solvent and allow drying completely before applying
- Wear eye protection and protective gloves as required while handling the product
- Maintain adequate ventilation in the work place at all times

Cure time

Curing time depends on environmental temperature, relative humidity and applied thickness. The thickness \leq 5 mm is recommended. The time for complete curing after surface drying is approximately 7 days

The data of this specification are obtained under laboratory conditions. However, because of the difference of use environment, process and so on, it can not guarantee the correctness and applicability of the product in some usage and use. When using, be sure to test to confirm the product suitable for your purpose. If you have any problems in using this product, please contact our technical department. We will do our best to help you.