

EMSF-319

Thermally Conductive Silicone RTV Adhesive

PRODUCT DESCRIPTION

EMSF-319 is a thermally conductive silicone RTV adhesive with one part, alcoxy type at room temperature. It has good thermal conductivity, high flame resistance, excellent electrical insulation and fast cure with short tack-free time. The EMSF-319 is a RoHS compliance and flame resistivity of UL94V0 product. The EMSF-319 has a wide application in assembly industries such as electronics. The high thermal conductivity of this product serves as a heat-dissipation media for electronic parts.

TECHNICAL PROPERTIES

Prior to Cure	
Cure Type	Alcoxy
Appearance	Non-flow paste
Color	White
Specific gravity, g/cm ³	1.69

At Cure	
Tack-free time min	<7
Skin-over time, min	<11
Cure rate (23 °C, 50% RH) 2 day, mm	>5
Working Temperature, °C	5 to 40

After Cure	
Specific Gravity , g/cm ³	1.70
Durometer Hardness (Shore A)	70
Temperature Tolerance, °C	-55 to 180
Mechanical Properties after 3 days (23 °C, 50% RH)	
Tensile Strength, MPa	3.0
Elongation at Break %	70
Adhesion strength in Al, MPa	2.0
Electrical Properties	
Dielectric strength (kV/mm)	31
Volume resistivity (Ohm.cm)	2×10^{15}
Dissipation factor (50Hz)	1×10^{-3}
Dielectric constant (50Hz)	3
Flame Resistivity	UL94V0

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assure legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. No warranty of fitness for a particular purpose is made. Properties are typical and not to be used as specifications.

ADHESION PROPERTIES

Excellent adhesion to glass, porcelain, metal, some plastics and coated substrates.

HOW TO USE

1. Ensure that all substrates are clean and dry.
2. Apply EMSF-319 on the surface of the substrate
3. Put the substrate to be bonded onto the adhesive
4. Allow the sealant to cure under the ambient condition

**Special note*

No primer needed.

PACKAGE

Generally pack in the 330 ml and 2600 ml plastic cartridge. It can also be supplied in other packages as required by users.

STORAGE

Store in cool and dry place which under temperature 30 °C. Unopened product has a usable life of 9 months under the suggested storage condition.

HEALTH AND SAFETY

Refer to the MSDS for guidance on safety and health issues.

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assure legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. No warranty of fitness for a particular purpose is made. Properties are typical and not to be used as specifications.