____ Product Data ___

Flame Retardant Silicone Adhesive Sealant TSE384-B

TSE384-B is a one-component, oxime cure, silicone adhesive sealant for flame retardant application. TSE384-B cures at room temperature with moisture in the air and bonds to most materials, such as metals, plastics, ceramics and glass without the use of primers.

KEY FEATURES

- Flame retandant ; UL94V-0 (File No:E56745)
- Primerless adhesion to many substrates
- Neutral cure ; Little risk of corrosion
- Excellent high and low temperature resistance; from -55°C to 200°C
- Excellent weatherability, ozone, and chemical resistance
- Excellent electrical insulation properties
- Simple and easy-to-use one-component system

APPLICATIONS

- ♦ Flame retardant adhesive for high voltage parts
- ♦ Sealing of electrical and industrial applications required flame retardency
- Connection sealing on electrical parts assemblies
- Waterproof sealant for electrical and communication equipment

TYPICAL PRODUCT DATA

TYPICAL UNCURED PROPERTIES					
Appearance		Thixotropic paste, Black			
Tack-free time (23°C)	min	60			
TYPICAL CURED PROPERTIES (7days @23°C / 50%RH)					
Appearance		Elastic rubber			
Specific gravity		1.46			
Hardness (Type A)		50			
Tensile strength	MPa {kgf/cm ² }	2.9 {30}			
Elongation	%	270			
Adhesive strength*	MPa {kgf/cm ² }	1.4 {14}			
Thermal conductivity	W/(m·K) {cal/(cm·s·°C)}	0.59 {1.4×10 ⁻³ }			
ELECTRICAL PROPERTIES (CURED)					
Volume resistivity	$M\Omega \cdot m \{\Omega \cdot cm\}$	1×10 ⁷ {1×10 ¹⁵ }			
Dielectric strength	kV/mm	22			
Dielectric constant (60Hz)		4.0			
Dissipation factor (60Hz)		0.016			

^{*}Aluminum Lap Shear

ADHESION PERFORMANCE

TSE384-B has excellent bonding properties and adheres to many materials without primers. However, for significantly better adhesion on difficult-to-bond substrates, use of a primer is suggested. The following list of materials shows the quality of adherence of TSE3840-G used with ME121, ME123, YP9341 or without a primer.

SUBSTRRATE	NO PRIMER	ME121	ME123 or YP9341
Metals			
Copper	\triangle^*	O	
Steel	0	0	
Brass	\triangle^*	O	
Stainless steel	0	0	
Pure aluminum	0	0	
Tin plate	0	0	
Zinc plate	Δ	Δ	
Plastics			·
Acrylic resin	0		0
Phenolic resin	0		0
Epoxy resin	0		0
Rigid polyvinyl chloride	0		0
Polyester film	0		0
ABS resin	×		0
Polyethylene	×		×
Polytetrafluoroethylene	×		×
Inorganic materials	<u> </u>		
Glass	0	0	
Ceramics	0	0	

Note

O: Excellent (Cohesive failure 100%)

 \triangle : Not sufficient

× : Poor(Cohesive failure 0%)

* : Corrosion may occur depending on the application

Do not apply to Polycarbonate due to solvent crack

HANDLING AND SAFETY

- Wear eye protection when handling uncured sealant as it can irritate eyes.
- In case of eye contact, immediately flush eyes well with water and contact a physician.
- Extended contact with the skin may cause irritation and should be avoided.
- This product releases methyl ethyl ketoxime vapors during cure. Adequate ventilation must be maintained in the work place at all times.

STORAGE

- Store in a cool, dry place out of direct sunlight.
- Keep out of the reach of children.

PACKAGING

- 150g tube available in case of 20
- 333ml cartridge available in case of 50 (5 boxes of 10 cartridge)

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FOR INDUSTRIAL USE ONLY

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