___ Product Data ____

General Purpose Flowable Silicone Adhesive Sealant TSE388

TSE388 is a one-component, oxime cure, flowable type of silicone adhesive sealant, which cures at room temperature with moisture in the air. TSE388 has a pourable consistency and excellent adhesion to metals, plastics, ceramics, glass, etc without the use of primers.

KEY FEATURES

- Primerless adhesion to many substrates
- Neutral cure; Little risk of corrosion (corrosion to copper and copper alloys)
- 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

- A waterproof sealant, as well as potting, for electrical and communication equipment
- Air-tight sealants for meters to keep out water and dust
- Sealing and potting to equipments which require cold and heat resistance
- ♦ Coating for electronic and integrated circuits and semiconductors
- General adhesion for metals, glass, plastic, wood, etc

TYPICAL PROPERTY DATA

(JIS K 6249)

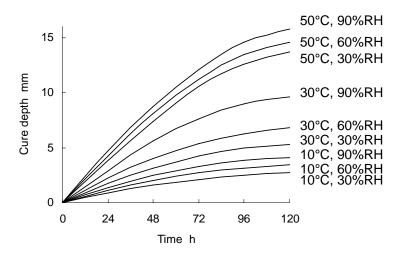
UNCURED PROPERTIE	S	
Appearance		Flowable liquid
Viscosity (23°C)	Pa⋅s {P}	10 {100}
Tack-free time (23°C)	min	60
CURED PROPERTIES	(7days @ 23°C / 50%RH)	
Appearance		Elastic rubber
Density (23°C)	g/cm ³	1.04
Hardness (Type A)		16
Tensile strength	MPa {kgf/cm²}	1.5 {15}
Elongation, %		330
Adhesive strength*1	MPa {kgf/cm²}	1.3 {13}
Thermal conductivity*2	W/(m·K) {cal/(cm·s·°C)}	0.18 {4.4×10 ⁻⁴ }
Volume resistivity	Ω·cm	1.0×10 ¹⁵

Dielectric strength	kV/mm	20
Dielectric constant (60Hz)		2.8
Dissipation factor (60Hz)		0.008

^{*1:} Aluminum lap shear

Typical property data values should not be used as specifications.

CURING PROPERTIES



ADHESION PERFORMANCE

TSE388 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 substrates shows the quality of adherence of TSE388 used with ME121, ME123, YP9341, XP80-A5363 or without a primer.

SUBSTRRATE	NO PRIMER	ME121	ME123	YP941/ XP80-A5363
Metals				
Copper	△*1	O*1		
Steel	0	0		
Mild steel	0	0		
Brass	Δ*1	O*1		
Stainless steel	Δ	0		
Aluminum	0	0		
Corrosion-resistant aluminum	0	0		
Galvanized sheet iron	0	0		
Tin plate	0	0		

^{*2:} In-house test method

Plastics				
Acrylic resin	0	0		
Phenolic resin	0	0		
Epoxy resin	0	0		
Polycarbonate	O*2	O*2		
Soft polyvinyl chloride	×	×	0	
Rigid polyvinyl chloride	0	0	0	
Polyester film	0	0	0	
Unsaturated polyester resin	0	0	0	
Polyimide	0	0	0	
Nylon 66	0		0	O*3
PBT			0	×
PPS	Δ		0	0*3
ABS resin	0	0	0	
Polypropylene	×	×	×	O*4
Polyethylene	×	×	×	×*4
Polytetrafluoroethylene	×	×	×	
Silicone varnish laminate	0	0		
Silicone varnish coated glass cloth	0	0		
Rubbers				
Chloroprene	\triangleleft		0	
Nitryl	\triangle		0	
Styrene butadiene	\triangleleft		0	
Ethylene propylene			0	
Silicone	0		0	
Others				
Glass	0	0		
Ceramics	0	0		
Wood	Δ~Ο	Δ~Ο		

Note

HANDLING AND SAFETY

- Wear eye protection and protective gloves as required while handling the product.
- Substrate surface should be thoroughly cleaned with a suitable solvent such as Alcohol, Xylene, Methyl ethyl ketone, etc.
- ♦ This product releases methyl ethyl ketoxime vapors as a by-product of cure. Adequate ventilation must be maintained in the work place at all times.

^{*1:} Corrosion may occur depending on the application

^{*2:} Do not apply to Polycarbonate due to solvent crack.

STORAGE

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

PACKAGING AND COLORS

COLOR SUFFIX	COLOR	PACKAGING
-G	Gray	333ml cartridge available in case of 10
-W	White	100g tube available in case of 20 333ml cartridge available in case of 10

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FOR INDUSTRIAL USE ONLY

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