____ Product Data ____

Flame Retardant Adhesive Sealant TSE3853-W

TSE3853-W is a one-component silicone adhesive, which cures on exposure to atmospheric moisture at room temperature to form a flame retardant silicone rubber. The product offers excellent corrosion-free adhesion to metals, including copper, plastics, ceramics, glass, etc without the use of primers.

KEY FEATURES

- ◆ Flame retardant: UL94 V-0 recognized (File No. E56745)
- ♦ Non-corrosive to metals: meets MIL-A-46146B corrosion test
- One-component: easy-to-use
- ♦ Low odor cure: releases an alcohol vapor during cure
- Primerless adhesion to many substrates

APPLICATIONS

- ♦ Flame retardant adhesive sealant for TV parts and CRT, house appliances, communication equipment, instruments and gauges
- Moistureproof, waterproof, electrical insulating, vibration proof adhesive sealant for hybrid integrated circuits, sensors, high voltage electronic assemblies, printed circuit boards, etc.
- General adhesion for metal, glass, plastic, etc.

TYPICAL PROPERTY DATA

(JIS K 6249)

UNCURED PROPERTIES		
Appearance		White, semi-flowable
Viscosity (23°C)	Pa·s{P}	400 {4,000}
Tack-free time (23°C)	min	15
CURED PROPERTIES (7d @ 23°C, 50%RH)		
Appearance		White, elastic rubber
Density (23°C)	g/cm ³	1.31
Hardness (Type A)		34
Tensile strength	MPa {kgf/cm ² }	2.3 {23}
Elongation	%	270
Adhesive strength*1	MPa {kgf/cm ² }	1.3 {13}
Thermally conductivity*2	W/(m·K) {cal/(s·cm·°C)}	0.34 {8.0×10 ⁻⁴ }
Volume resistivity	MΩ·m {Ω·cm}	2.0×10^{6} { 2.0×10^{14} }
Dielectric strength	kV/mm	20
Dielectric constant (60Hz)		3.1
Dissipation factor (60Hz)	·	0.02

^{*1} Aluminum lap shear

^{*2} In-house test method

Typical property date values should not be used as specifications.

ADHESION PERFORMANCE

TSE3853-W has excellent bonding properties and adheres to many materials without primers.

SUBSTRATE	ADHESIVENESS (WITHOUT PRIMER)
Aluminum	0
Stainless steel	×
Steel	0
Copper	
Brass	0
Glass	0
Phenyl resin	0
Epoxy resin	0
Polyester	0
Polycarbonate	0
Rigid PVC	0
Polyethylene	×
ABS resin	0
Polyamide	0
Acrylic resin	Δ
PBT	0
PPO	0
PPS	0

O: Excellent (Cohesive failure)

∆: Not sufficient

x: Poor (Adhesive failure)

HANDLING AND SAFETY

- ♦ Wear eye protection and protective gloves as required while handling the product.
- Maintain adequate ventilation in the work place at all times.

STORAGE

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

PAKAGING

- ♦ 130g tube available in case of 20
- ♦ 333ml cartridge available in case of 10
- ♦ 20kg pail available

FOR INDUSTRIAL USE ONLY

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