

TSE 3253

Flame retardant silicone adhesive

Product Description

TSE3253 is a one-component, semi-flowable, heat curable silicone adhesive designed for electrical and electronic applications. This product cures with heating in a short period of time to a tough silicone elastomer.

Key Performance Properties

- Flame resistant – approved UL94V-1 (File No: E56745)
- Semi-flowable consistency
- Excellent high and low temperature resistance
- Heat accelerated cure
- Easy to use – one component system
- Primerless adhesion to many substrates – Plastics, Metals, Ceramics and Glass
- Non corrosive to metals

Typical Applications

- Sealing, coating and potting for high voltage parts
- Adhesion and sealing for communications equipment

Typical Product Data

Typical uncured properties		
Appearance		semi-flowable
Colour		black
Viscosity	Pa·s	14

Typical Product Data

Typical cured properties (1hr @150°C)		
Density	g/cm ³	1.22
Hardness	Shore A	30
Tensile strength	MPa	2.9
Elongation	%	200
Adhesive strength (Aluminium Lap shear)	MPa	1.0
Thermal conductivity	W/ m·K	0.18
Volume resistivity	ohm·cm	7·10 ¹⁵
Dielectric strength	kV/mm	23



Dielectric constant @ 60Hz		3,0
Dissipation factor @ 60Hz		0.004
Linear expansion	1/K	$2.1 \cdot 10^{-4}$

Adhesion capability

Suitable substrates:

Metal: Aluminium, Copper, Ni plated, Stainless Steel
Plastics: PPS, PBT, Epoxy resin, Polyester, Phenolic resin
Rubbers: Heat cured silicone rubber
Inorganics: Glass, Ceramics

Not suitable substrates:

Plastics: PP, PE, Fluorocarbon resin
Rubbers: RTV silicone rubber, Sulphur vulcanized rubber, Fluorocarbon rubber

Instruction for use

TSE 3253 is a single component addition-curing ready to use adhesive. Materials such as water, sulphur, nitrogen compounds, organic metallic salts, phosphorous compounds, etc. contained in the surface of the substrate can inhibit curing. A sample patch should always be conducted before proceeding to determine compatibility.

Before using the product, allow the contents to return to room temperature before opening the container to avoid condensation.

Handling and Safety

Material and Safety Data Sheets are available upon request from Momentive performance materials. Similar information from solvents and other chemicals used with the Momentive performance materials products should be obtained from the supplier. When solvent is used, proper safety precautions must be observed.

Storage and Warranty Period

The shelf life from the material will be indicated by the "use before date" on the associated documents with a minimum of 4 months when stored in unopened containers at 10°C or less.



PRINCIPAL LOCATIONS – Regional Information

North America	World Headquarters 187 Danbury Road Wilton, CT 06897, USA	T 800.295.2392	F 607.754.7517
Latin America	Rodovia Eng. Constâncio Cintra, Km 78,5 Itatiba, SP – 13255-700, Brazil	T +55.11.4534.9650	F +55.11.4534.9660
Europe, Middle East, Africa and India	D-51368 Leverkusen Germany	T 00.800.4321.1000 T +31.164.293.276	F +31.164.241.750
Pacific	Akasaka Park Building - 5-2-20 Akasaka Minato-ku, Tokyo 107-6112 Japan	T +81.3.5544.3100	F +81.3.5544.3101

CUSTOMER SERVICE CENTERS

North America	Charleston, WV 25314, USA E cs-na.silicones@momentive.com		
	• Specialty Fluids	T 800.523.5862	F 304.746.1654
	• UA, Silanes, Resins, and Specialties	T 800.334.4674	F 304.746.1623
	• RTV Products-Elastomers	T 800.332.3390	F 304.746.1623
	• Sealants and Adhesives & Construction	T 877.943.7325	F 304.746.1654
Latin America	E cs-la.silicones@momentive.com		
	• Argentina & Chile	T +54.11.4862.9544	F +54.11.4862.9544
	• Brazil	T +55.11.4534.9650	F +55.11.4534.9660
	• Mexico & Central America	T +52.55.5899.5135	F +52.55.5899.5138
	• Venezuela, Ecuador, Peru, Colombia, & Caribbean	T +58.212.285.2149	F +58.212.285.2149
Europe, Middle East, Africa and India	E cs-eur.silicones@momentive.com	T 00.800.4321.1000 T +31.164.293.276	F +31.164.241750
	E cs-ap.silicones@momentive.com		
Pacific	• Japan	T +81.276.20.6182	
	• China	T +86.21.5050.4666 (ext. 1523)	
	• Korea	T +82.2.6201.4600	
	• Singapore	T +65.6220.7022	
Worldwide Hotline	Worldwide Web www.momentive.com	T 800.295.2392 T +607.786.8131	F +607.786.8309

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