

TSE3854D-G and W

1 Part Flame Retardant Adhesive/Sealant

Product Description TSE3854D is a one-component silicone adhesive, which cures on exposure to atmospheric moisture 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 Performance Properties

PRODUCT FEATURES

- Flame retardant: certified UL94 V-0 => 3854D-G: 0.8 mm
3854D-W: 1.5 mm (UL file No. E56745)
- Non-corrosive to metals: meets MIL-A-46146B corrosion tests
- One component: easy to use
- Low odour cure: releases an alcohol vapour during cure
- Outstanding electrical properties
- Primerless adhesion to many substrates

Applications

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

Typical Product Data

Uncured Properties	
Cure System	Alkoxy
Colour	Grey/White
Consistency	Thixotropic Paste
Tack Free Time, minutes	15
Cured Properties	
Specific Gravity, g/cm ³	1.32
Hardness (Type A)	40
Tensile Strength, MPa	2.7
Elongation, %	260
Shear Strength Alu/Alu, MPa	2.2
Thermal Conductivity, W/(m.K)	0.34
Dielectric Strength, kV/mm	25
Dielectric Constant (60 Hz)	3.1
Dissipation Factor (60 Hz)	0.02
Volume Resistivity, ohm.cm	2.5x10 ¹⁴

Specifications Typical product data values should not be used as specification. Assistance and specification are available by contacting Momentive performance materials Technical Service RTV1 and RTV2.

Instructions for Use **Surface Preparation**

Insure that surfaces to be sealed, coated or bonded are clean and free of grease, lubricating oils, release agents and dirt. To optimize fast cure and good adhesion, substrates must be thoroughly dry of cleaning solvents before applying the adhesive/ sealant. The adhesive/ sealant should be applied to one surface only. Wipe away excess uncured material with a clean cloth. After curing, removal of material is more difficult.

Bonding

This product offers primerless adhesion to many substrates including most plastics. Maximum adhesion is obtained 72 hours after full cure is obtained (2 mm thick specimen to an aluminum substrate).

Curing

This product cures at room temperature reacting with atmospheric moisture. Whenever possible, 25°C and 50% relative humidity should be provided. Higher temperature and humidity will cause faster cures while lower temperatures and lower humidity will slow the cure considerably. This product cures from the outside (outer skin) inward; therefore, cure rate is also dependent on the thickness of the material. It is not recommended to apply material thicker than 6mm.

Handling and Safety

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

Storage and Warranty Period

The shelf life will be indicated by the 'use before date' on the associated documents with a minimum of 6 months when stored in the original unopened containers below 27 °C.

Availability

TSE3854D-W is available in 130 gram tubes and in 333ml cartridges. TSE3854D-G is available in 130 and 230 gram tubes and in 20 kg pails



PRINCIPAL LOCATIONS – Regional Information

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	• 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
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