



TSE3843

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Description

TSE3843-W is a one-component, oxime curing, and silicone adhesive sealant, designed for flame retardant applications. TSE3843-W cures at room temperature with moisture in the air to an elastic rubber. This product bonds without the use of a primer to substrates like metals, plastics, ceramics and glass.

Key Features and Benefits

- Flame retardant: UL94-V-1 recognized (file No: E56745)
- 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 dielectric properties
- Excellent weatherability; ozone and chemical resistance

Typical Physical Properties

Typical uncured Properties		
Appearance		Semi-flowable white paste
Tack-free Time at 23°C	Minutes	60
Viscosity 23°C	MPa.s	500.000

Typical cured Properties (7 days @ 23°C / 50% RH)		
Appearance		Elastic white rubber
Specific gravity	g/cm ³	1.57
Hardness	Shore A	60
Tensile strength	MPa	3.9
Elongation	%	130
Adhesive Properties (AL/AL)		
Adhesive strength	MPa	1.8
Cohesive Failure	%	100
Electrical Properties (cured)		
Volume resistivity	ohm-cm	1x10 ¹⁵
Dielectric strength	kV/mm	21
Arc resistance	s	>360
Dielectric constant (60 Hz)		3.9
Dielectric loss (60 Hz)		0.02
Electrical Properties (cured+16hr water immersion at 23°C)		

Volume resistivity	ohm-cm	3×10^{15}
Dielectric strength	kV/mm	21
Arc resistance	s	>360
Dielectric constant (60 Hz)		4.1
Dielectric loss (60 Hz)		0.03

Potential Applications

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

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Material Safety Data Sheet (MSDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, and any special storage conditions required for safety. MSDS are available at www.momentive.com or, upon request, from any Momentive Performance Materials (MPM) representative. **For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center.** Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Processing Recommendations

Surface Preparation

TSE 3843-W will bond to many clean surfaces without the aid of primers. These surfaces typically include many metals, glass, ceramic, silicone rubber and some rigid plastics. Where adhesion is required, surfaces should be thoroughly cleaned with a suitable solvent such as naphtha, iso propyl alcohol (IPA) or methyl ethyl ketone (MEK) to remove dirt, oil and grease. The surface should be wiped dry before applying the adhesive sealant. When solvents are used, proper safety precautions must be observed.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

Availability

TSE3843-W is available in 150 and 250 g tubes as well as in 333ml cartridges.

Contact Information

For product prices, availability, or order placement, contact our customer service by visiting momentive.com/ContactSilicones.

For literature and technical assistance, visit our website at: www.momentive.com

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