

SILTRUST™ TSE3331K EX SILICONE RUBBER

SILTRUST TSE3331K EX is a two-part material, which cures with heat to a silicone rubber with excellent adhesive properties. It provides excellent flame retardant properties (UL94 V-0) and very stable dielectric properties over a broad temperature range.

Key Features and Typical Benefits

- Convenient 1:1 mix ratio by weight
- Low viscosity allows for superior flowability
- Excellent flammability properties (UL94 V-0 recognized)
- Excellent thermal conductivity properties
- Excellent adhesive properties. Primerless adhesion to many substrates
- Excellent heat resistance

Typical Physical Properties

<u>Property</u>	<u>Unit</u>	<u>Value</u>	
Uncured Properties		Part A	Part B
Colour		Black	White
Viscosity (25 °C)	Pa·s	3.2	2.4
Viscosity After Mixing (23 °C)	Pa·s	2.6	
Pot Life (23 °C)	hrs	8	
Colour (Mixed)		Black	
Mixing Ratio by Weight		1:1	
Cured Properties (1 hour at 120 °C)			
Density	g/cm ³	1.43	
Hardness (Type A)		45	

Tensile Strength	MPa	2.9
Elongation	%	110
Shear Adhesive Strength	MPa	1.5
Dielectric Strength	kV/mm	25
Dielectric Constant (60 Hz)		3.2
Dissipation Factor (60 Hz)		0.02
Volume Resistivity	$\Omega \cdot \text{cm}$	4.0×10^{14}
UL94 Classification		V-0
Thermal Conductivity	W / m·K	0.53

Typical physical properties are average data and should not be used as or to develop product specifications.

Potential Applications

- Potting of electronic parts requiring flammability and use under temperature extremes
- Potting of high voltage parts
- Impregnation/potting of motor coils

General Considerations for Use

While the typical operating temperature for silicone materials ranges from -45°C to 200°C, the long-term maintenance of its initial properties is dependent upon design related stress considerations, substrate materials, frequency of thermal cycles, and other factors.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the 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 Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at

www.momentive.com or, upon request, from any 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.

Limitations

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

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

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