

RTV Silicones

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RTV Silicones by

2-Part Potting/Encapsulating Compound TSE3331

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Primary Characteristics

- ▶ Gray Flowable
- ▶ **Thermally conductive**
- ▶ Meets UL94 V-0
- ▶ Meets UL File #E36952
- ▶ Addition cure
- ▶ Thermally conductive
- ▶ General Purpose potting

Use for:

- ▶ Potting or encapsulation of power supply / transformer assemblies that require good thermal dissipation

TSE3331 silicone rubber compound is a two component, heat curing liquid silicone for potting and encapsulation where flammability and/or thermal conductivity is of concern. It provides excellent flame retardant properties (UL94 V-0) and very stable dielectric properties over a broad range of operating temperatures. In addition, TSE3331 silicone rubber compound also offers superior thermal conductivity properties when compared to other conventional silicone encapsulants. **This product must be cured in a well ventilated oven.**

Available Sizes

Catalog Number	Sizes Available	Description
TSE3331-2QT	2 qt	4 lbs. kit
TSE3331 requires a primer. Visit our primer guide for details.		

Specifications

Use	Adhesive Sealant
Special Feature	Thermally Conductive
Standards	UL 94 V-0 UL File #E36952
Cross Reference	TSE3331
Uncured Properties	
Consistency	Easily pourable
Color	Gray
Specific Gravity	1.51
Tack Free Time	8 hours
Cure Through Time	10 min. @ 100°C
	5 min. @ 150°C
	2 min. @ 200°C
Useful Temp. Range	-60°C to 204°C (-75°F to 400°F)
Cured Properties - MECHANICAL	
Hardness	60 (Shore A)
Tensile Strength	3.24 MPa (426 psi)
Elongation	50%

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Related products:

- ☐ [RTV1032 White \(1 part\)](#)
- ☐ [TSE3941 White \(1part\)](#)

Find by Product Number



Resources

[What are RTV Silicones? >](#)
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Tear Strength	3.4 kg/cm (19 lb/in)
Peel Strength	-
Volume Resistivity	2.0×10^{14} ohm · cm
Dielectric Strength	26 kV/mm
	661 V/mil
Dielectric Constant	3.3 @ 60 Hz
Cured Properties - THERMAL	
Thermal Conductivity	0.63 W/m · °K
Brittle Point	-55°C (-67°F)
Thermal Expansion	27×10^{-5} (°C) ⁻¹
Other	
Viscosity (@ 25°C)	3,500 cps
Mix Ratio (by weight)	1 : 1
Pot Life	8 hours

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