



# PTS-46325

**DEFINITION**

REV 3.0

6-57210A

6-57211B

**PTS-46325** is a high viscosity, two-component, gray, *one to one room temperature cure* silicone encapsulant. It is designed for bonding, or casting of completed circuit boards, hybrid circuits, and power supplies, where flexibility, reparability, and high temperature resistance are required. Possible applications include automotive, telecommunications, transformers, cable end sleeves, capacitors, coils, insulators/bushings, transducers, and (re-enterable) telephone cable splicers

**PRODUCT DESCRIPTION**

Appearance	Gray paste
Odor	Faint
Color	paste

Property	Result	Methods
Viscosity	Non-sag paste	Incline plane

Other information		
Pot life time @ 25± 2°C	45 minutes, depending on mass	
Specific gravity @ 20°C (g/cm <sup>3</sup> )	1.6 approx.	
Possible curing cycles	<ul style="list-style-type: none"> <li>90 minutes at room temperature, full properties develop after several hours.</li> </ul>	
Mix Ratio: (1:1)	By Weight:	Part A 100
		Part B 100
Shelf Life	By Volume:	Part A 100
		Part B 100
	One year in original unopened containers.	

### APPLICATION PROPERTIES

- Since **PTS-46325** has good adhesion to most common circuit board materials, it does not require the use of primers, buffers, conformal coatings, or silicone gels that are needed for most applications.
- **PTS-46325** provides long-term circuit protection from about – 65°C to 150°C.
- **PTS-46325** in side by side dual cartridges of 50 ml, 200ml, 400ml, gallon and 5 gallon containers.

### APPLICATION RECOMMENDATIONS

- For evaluation purposes: add one part **PTS-46325 Part B** to one part **PTS-46325 Part A** at room temperature. Mix thoroughly. Degas to 0.5 mm Hg or less until all entrained air has been expelled (about 2-3 minutes).
- **PTS-46325** is designed to be applied by convenient two part cartridges or meter mix equipment.

### TYPICAL PROPERTIES OF CURED EXP-06224™

The properties listed below were determined from measurements carried out in a limited number of tests. These properties are given as guidance, and do not constitute a guarantee. It will be for the user, in all cases, to carry out their own tests to determine whether **PTS-46325** is suitable for the user's particular application.

Property	Result	Methods
Shrinkage on Cure	<1%	
Shore A Hardness	40	ASTM D2240
Thermal Conductivity	1.1 W/M/K	
Glass Transition Temperature	Tg 1: -64°C Tg 2: -48°C	TGA1
Weight Loss, (1 week at 150°C)	0.25%	
(Saturated) Steam Resistance, (72 hours, 15 psi steam, %weight gain)	1%	
Coefficient of Thermal Expansion	55 x 10 <sup>-4</sup> /°C	TMA1

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Property	Result	Methods
Volume Resistivity <ul style="list-style-type: none"> <li>• 100 V</li> <li>• 500 V</li> <li>• 1000 V</li> </ul>	2.5 x 10 <sup>15</sup> Ω-cm 1.9 x 10 <sup>15</sup> Ω-cm 1.4 x 10 <sup>15</sup> Ω-cm	ASTM D257
Dielectric Constant/Dissipation Factor <ul style="list-style-type: none"> <li>• 120 Hz</li> <li>• 1000 Hz</li> </ul>	4.7/0.0085 4.8/0.0085	ASTM D150
Dielectric Strength (1.6 mm thickness)	25 kV/mm	ASTM D149

### **STORAGE AND HANDLING**

- Store **PTS-46325** in a cool dry place away from food, heat, moisture, direct sunlight, acidic, oxidizing agents, and peroxides.
- Avoid contact with other materials containing sulfur, tin, nitrogen compounds, including rubber, epoxies, polyurethanes, polysulfides, polyamides, and other silicone RTV's which may inhibit cure.
- Blanket opened containers of **PTS-46325** with dry nitrogen and closed tightly.

### **PRECAUTIONS IN USE**

Refer to the material safety data sheet.

### **PACKAGING**

For specific packaging requirements, please contact Protavic America, Inc.

The information contained in this data sheet corresponds to the present state of our knowledge; it is intended for your guidance but we are not bound by it since we are not in a position to exercise control over the manner in which our products are used. Moreover, the attention of the user is drawn to the risks that could possibly occur should a product be used for an application other than that for which it is intended.