



## PTE-47853

C6-57544A

C6-57545B

### DEFINITION

**PTE-47853™** is a highly thermally conductive, flexible adhesive/sealant and potting compound. **PTE-47853™** is designed to provide **low stress**, air free potting and casting of electronic devices. **PTE-47853™** is specifically developed for bonding to difficult substrates such as glass, ceramics, and metals.

### PRODUCT DESCRIPTION

Appearance	Liquid
Odor	Faint
Color (May be modified to meet your requirements)	BLACK

Property	Result	Methods
Viscosity	5,500 mPa·s	Brookfield RVT, Spindle 27, Small Sample Adaptor, 10 rpm, 25°C

Other information		
Work life time @ 25 ± 2°C	120 minutes (viscosity doubles)	
Gel Time @ 25°C	2.5 hours (depending on mass and substrates)	
Full Cure Time @ 25°C	24–120 hours	
Fixture/Handling Time @ 25°C	3 hours	
Fixture/Handling Time @ 85°C	5-10 minutes	
Mix Ratio:	By weight:	Part A 100 Part B 10
	By Volume:	Part A 100 Part B 21
Possible curing cycles	24- 120 hours at 25°C 2 hour @ 65°C (150°F)	
Specific gravity @ 25°C (g/cm <sup>3</sup> )	2.0	
Storage stability (unmixed)	1 year at room temperature	

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### APPLICATION PROPERTIES

- **PTE- 47853™**, when fully cured, is highly resistant to moisture, hot water, steam, hot antifreeze solutions, automotive fluids, detergents, gasoline, hydraulic fluids, plasticizers, cleaning agents, acids, and bases.
- **PTE-47853™** is highly resistant to vibration and can be thermal cycled between – 40 and 150°C.

### TYPICAL PROPERTIES OF CURED PTE-57851™

The properties set out below were determined following measurements carried out in the laboratory over a small number of tests. They are values given by way of 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 the **PTE-47853®** resin can be used for the particular application the user has in mind.

### PHYSICO-CHEMICAL PROPERTIES

Properties	Methods	Units	Typical values
Cure 2 hours @ 65°C (150°F)			
Shore A hardness	ASTM D2240	-----	80
Lap shear to Al	ASTM D3163	psi	2,500

### ELECTRICAL PROPERTIES

Properties	Methods	Units	Typical values
Volume Resistivity <ul style="list-style-type: none"><li>• 100 V</li><li>• 500 V</li></ul>	ASTM D257	Ω-cm	<ul style="list-style-type: none"><li>• 8.0 x 10<sup>14</sup></li><li>• 6.3 x 10<sup>14</sup></li></ul>
Dielectric Constant <ul style="list-style-type: none"><li>• 120 Hz</li><li>• 1000 Hz</li></ul>	ASTM D150	--	<ul style="list-style-type: none"><li>• 4.3</li><li>• 4.3</li></ul>
Dissipation Factor <ul style="list-style-type: none"><li>• 120 Hz</li><li>• 1000 Hz</li></ul>	ASTM D150	--	<ul style="list-style-type: none"><li>• 0.002</li><li>• 0.002</li></ul>

### PRECAUTIONS IN USE

Refer to the attached material safety data sheet.

### PACKAGING

**PTE-47853** is available in two component kits, and twin syringe cartridges like Mixpac™. For sizes and part numbers, 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.

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