



# TECHNICAL DATA SHEET PUA508 White

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Dayabay, Huizhou City, Guangdong, China

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## **DESCRIPTION:**

**Tacusil PUA508 White** is a two-parts general purpose urethane suitable for potting and encapsulation of electronic devices. It was formulated to a 4:1 by volume ratio for ease of use in automatic mixing equipment and is available in both bulk and cartridge format. This low viscosity formulation gels in less than 20 minutes at a volume of 50 ml and reaches full cure within 72 hours at room temperature. Higher temperatures will accelerate cure. PUA508 White contains soft, low-abrasion fillers which can separate over time, although they have good resistance to hard settling

## **TYPICAL PROPERTIES:**

All properties given are at 25 °C unless otherwise noted.

<b>Property:</b>	<b>Value:</b>	<b>Test Method or Source:</b>
<b>Color</b>		Visual
<b>Part A</b>	White	
<b>B</b>	Clear	
<b>Mixed</b>	White	
<b>Mix Ratio</b>	Part A to Part B	Calculated
<b>By weight</b>	5 to 1	
<b>By Volume</b>	4:1	
<b>Cure Schedule</b>	48hours @RT	
<b>Viscosity – Part A</b>	13000 cps @1/s	Rheometer parallel plate 25mm@1/s
<b>Viscosity – Part B</b>	360cps @1/s	
<b>Viscosity - Mixed</b>	2500cps @1/s	
<b>Specific Gravity – Part A</b>	1.52	Calculated
<b>Specific Gravity – Part B</b>	1.21	
<b>Specific Gravity - Mixed</b>	1.44	
<b>Pot Life,</b>	6mins	Rheometer parallel plate 25mm@1/s
<b>Gel Time</b>	18minutes/50cc sample	Gardco Hot Pot Gel Timer
<b>Glass Transition Temperature/Tg</b>	0°C	DSC
<b>Hardness</b>	78 Shore A	ASTM D2240
<b>Water Absorption</b>	0.5% after 24 hours	ASTM D570
<b>Tensile Properties:</b>		ASTM D638/MTS
<b>Strength</b>	1500 psi	
<b>Elongation</b>	150%	
<b>Modulus</b>	400 psi	
<b>Bulk Resistivity</b>	1.0* 10E13 ohm-cm	Jandel 4 point probe
<b>Service temperature</b>	-50~125C	/
<b>Non volatile content</b>	100 %	/

This TDS contains values that have been updated. The values reported in this technical data sheet are typical values of the product, and are highly dependent on test conditions and methodology. We actively seek the most precise and accurate ways to measure and interpret performance of our products, and to update estimated values with measured values. The formula has not been revised or changed in any way. Although the values on paper have changed, you can expect the same performance of the product.

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## **INSTRUCTIONS:**

1. Cartridge format: Mixer should be attached keeping the cartridge vertical and any air pocket purged this way. Attach a new static mixer with each cartridge, then pre-bleed the first 3 inches of dispensed material or until a uniform color is obtained. Maintain adequate velocity during dispensing to ensure complete mixing.
2. Bulk format: stir until homogeneous weigh and mix parts A and B accurately and thoroughly, scraping sides of container often. Do not pour from mixing container, transfer to a new container as residual unmixed material may cause a tacky spot on the surface of the casting.
3. Allow to cure undisturbed until product is fully gelled or tack-free to the touch.
4. Clean up uncured resin with suitable organic solvent such as MEK, acetone or other organic solvent.

## **SHELF LIFE AND STORAGE:**

6 months at 25 °C in bulk package  
Specialty packaging may be less.

Isocyanates are sensitive to moisture and should be kept in their original container or in a volume tank under dry nitrogen blanketing. Many isocyanates are prone to dimerization, the formation of a white precipitate. Products with minor amounts of this precipitate normally cure to full properties. Storage at 20 - 30 °C (68 °F to 86 °F) is recommended to ensure full shelf life.

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