TECHNICAL DATA SHEET
Tacusil EPA 2701

05/20/2020

Room 9,11 Floor, Chuangxin Building Block 1, No.1, Technology Road, Technology Chuangxin Park, West of Dayabay, Huizhou City, Guangdong, P.R.C.

DESCRIPTION:

Tacusil EPA 2701 is a two-parts low viscosity, high temperature epoxy designed for fiber optic, structure bonding. It's very purity epoxy offered high strength, low CTE and fast cure properties under elevated temperature. It also has excellent weather resistance, chemical resistance and good adhesion to versatile substrate.

TYPICAL PROPERTIES

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

Property:	*Value:*	*Test Method or Source:*
Color	Translucency/Very light yellowish	Visual
Mix Ratio **By weight** **By Volume**	Part A to Part B 10 to 1 9.5:1	Calculated
Cure Schedule	30mins @80C or 5mins@120C	
Viscosity – Part A **Viscosity – Part B** **Viscosity - Mixed**	18000cps @1/s 50cps @1/s 9000 cps @1/s	Rheometer parallel plate 25mm@1/s
Specific Gravity – Part A **Specific Gravity – Part B** **Specific Gravity - Mixed**	1.12 1.05 1.08	Calculated
Pot Life,@25C	>4H	Rheometer parallel plate 25mm@1/s
Glass Transition Temperature/Tg	137 °C	DSC
Hardness	85 Shore D	ASTM D2240
Water Absorption	0.1% after 24 hours	ASTM D570
Tensile Properties: **Strength** **Elongation** **Modulus**	 8500psi 0.5% 75,00 psi	ASTM D638/MTS
Lap shear strength	2750PSI	ASTM D1002
Bulk Resistivity	15 ohm-cm	Jandel 4 point probe
Non volatile content	100 %	
Service temp/C	-50~230C continuous -55~290 intermittent	

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. Bottle 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:

12 months at 25 °C in bottle
Specialty packaging may be less.

Many epoxy resin systems are prone to crystallization as epoxy resin is a super-cooled fluid. This condition may give the product a gritty or grainy appearance (or hazy in clear products). Products in this state will not usually cure to normal and expected properties. In extreme cases it may appear solid and cured. Fluctuating temperatures (within 5 to 50 °C) aggravate this phenomenon. Heating the individual component to 50 to 60 °C while stirring can usually restore products to original state. Storage at 25 +/- 10 °C is optimum for most products.