

**DESCRIPTION:**

Tacusil™ SIA0030 is a two-part thermally conductivity silicone base gap filler and special design for EV battery package heat sink. It can completely cure at room temperature to a flexible polymer with very low hardness and stress in the curing process. It contains abrasive aluminum oxide filler which introduces wear considerations for wetted components and designed for the big volume potting and provides very good resistance to chemicals, solvent, acids and water etc.

**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>	Gray	Visual
<b>Mix Ratio</b> By Weight By Volume	Part A to Part 1 to 1 1 to 1	
<b>Cure Schedule</b>	24 hours @RT or 1 hours @80°C	
<b>Viscosity:</b> Part A Part B Mixed	135,000 cps 150,000 cps 145,000 cps	Rheometer parallel plate 25mm@1/s 45530006291
<b>Specific Gravity</b> Part A Part B Mixed	2.9 2.9 2.9	Calculated
<b>Pot Life</b>	60 mins	453560822627
<b>Glass Transition Temperature/Tg</b>	-40 °C	453560822409 by DSC
<b>Hardness</b>	75 Shore A	455300006287/ASTM D2240
<b>Water Absorption</b>	0.3% after 24 hours	457561824543/ASTM D570
<b>Thermal Conductivity</b>	2.95 W/m.K	ASTM 5470D
<b>Tensile Properties</b> Strength Elongation	3.2 MPa 20%	455300006285/ASTM D638/ MTS 4535601224470/ASTM D638/Instron
<b>Tear Strength</b>	1.5 N/mm	455300006547/ASTM D624, Tear Die B/MTS
<b>Compressive Strength</b>	800 psi	455300006265/ASTM D695/MTS
<b>Coefficient of Thermal Expansion by TMA</b>	175 ppm/ °C	455300005340/ASTM E831 TMA, 5°C/min
<b>Surface Resistivity</b>	2.51 x 10 <sup>15</sup> ohm/sq. cm	455300006612/ASTM D257
<b>Volume Resistivity</b>	6.18 x 10 <sup>15</sup> ohm-cm	

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<b>Dielectric Strength</b>	420 V/mil	ASTM D149 Method A, immersed in ASTM D3487 Type II Oil
<b>Non-volatile content</b>	99.99%	455300005646
<b>Temperature Range</b>	-40~200 °C	

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.

**INSTRUCTIONS:**

1. Bulk format: 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. Maintain adequate velocity during dispensing to ensure complete mixing.
2. Allow to cure undisturbed until product is fully gelled or tack-free to the touch.
3. Clean up uncured resin with suitable organic solvent such as MEK, acetone or other organic solvent.

**SHELF LIFE AND STORAGE:**

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