

# ThermoSink 35-3 Technical Data Sheet

ThermoSink 35-3 is a two-component, low viscosity, thermally conductive silicone elastomer that cures rapidly at room temperature. ThermoSink 35-3 is designed for electrical potting and thermal interface applications where high-performance heat transfer and thermal management is required.

APPLICATIONS	FEATURES	SUBSTRATES
<ul> <li>Automotive</li> </ul>	<ul> <li>Thermally Conductive</li> </ul>	<ul> <li>Metals</li> </ul>
<ul> <li>Electronic Assembly</li> </ul>	<ul> <li>Water Resistant</li> </ul>	<ul> <li>Ceramics</li> </ul>
<ul> <li>Power Supplies</li> </ul>	<ul> <li>Fast set, RT Cure</li> </ul>	<ul> <li>Plastics</li> </ul>
	RoHS Compliant	

### **Typical Properties of Uncured Material\***

Chemical Class	Silicone / Silicone
Color (Part A / Part B)	Grey / White
Viscosity, Part A @25°C, @10RPM, cps	10,000 to 22,000
Viscosity, Part B @25°C, @10RPM, cps	10,000 to 22,000
Viscosity, Mixed @25°C, @10RPM, cps	15,000
Specific Gravity Part A	2.9 to 3.3
Specific Gravity Part B	2.9 to 3.3
Mix Ratio, PBV (A:B)	1:1
Cleanup Solvent	Isopropyl alcohol

#### **Cure Guidelines\***

Pot Life @ RT, minutes	20
Set Time @ RT, minutes	30 to 60
Cure Time @ RT, hours	4
Cure Time @ 125°C, minutes	15

## **Typical Properties of Cured Material\***

Durometer, Shore A	45 ±15
Young's Modulus, MPa	2.2
Glass Transition Temperature (Tg), °C	-58
CTE, ppm, Above Tg	79
Total Mass Loss, %, ASTM E595	0.91
Collected Volatile Condensable, %, ASTM E595	0.33
Water Vapor Recovered, %, ASTM E595	0.03
Dielectric Constant, @ 2.5 MHz	5.67
Dielectric Strength, kV/in	280
Volumetric Resistivity, Ω*cm	3.6 * 10 <sup>15</sup>
Dissipation Factor, @ 2.5 MHz	0.002
Thermal Conductivity, W/m °K	>3.4
Temperature at 1% wt. loss, °C	260
Flammability, UL94**	V0
Processing Temperature Range, °C	-60 to 185

<sup>\*</sup>All properties given are typical values and are not intended for use in preparing specifications.

<sup>\*\*</sup> Flammability tested in-house with 3 mm thick sample using identical conditions as UL94 flame chamber



#### **Storage**

Both Part A and Part B need to be thoroughly remixed individually prior to use. Keep stored between 8°C and 28°C in tightly closed, light-blocking containers away from direct sunlight. Keep from freezing Please refer to product labeling for shelf-life information. Consult SDS for safe handling recommendations.

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