

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 style="list-style-type: none"> Automotive 	<ul style="list-style-type: none"> Thermally Conductive 	<ul style="list-style-type: none"> Metals
<ul style="list-style-type: none"> Electronic Assembly 	<ul style="list-style-type: none"> Water Resistant 	<ul style="list-style-type: none"> Ceramics
<ul style="list-style-type: none"> Power Supplies 	<ul style="list-style-type: none"> Fast set, RT Cure RoHS Compliant 	<ul style="list-style-type: none"> Plastics

Typical Properties of Uncured Material*

Chemical Class	Silicone / Silicone
Color (Part A / Part B)	Grey / White
Viscosity, Part A @25°C, @10RPM, cps	5,000 to 35,000
Viscosity, Part B @25°C, @10RPM, cps	2,500 to 25,000
Viscosity, Mixed @25°C, @10RPM, cps	15,000
Specific Gravity Part A	2.9 to 3.5
Specific Gravity Part B	2.9 to 3.5
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 (T _g), °C	-58
CTE, ppm, Above T _g	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 ¹⁵
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

*All properties given are typical values and are not intended for use in preparing specifications.

** 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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