

## ThermoSink 35-5

### Technical Data Sheet

ThermoSink 35-5 is a two-component, low viscosity, thermally conductive silicone elastomer that cures rapidly at room temperature. ThermoSink 35-5 has a low Shore A hardness. It is designed for electrical potting and/or thermal interface applications where high-performance heat transfer and thermal management is required.

APPLICATIONS	FEATURES	SUBSTRATES
<ul style="list-style-type: none"> <li>• Automotive</li> </ul>	<ul style="list-style-type: none"> <li>• Thermally Conductive</li> </ul>	<ul style="list-style-type: none"> <li>• Engineered Plastics</li> </ul>
<ul style="list-style-type: none"> <li>• Electronic Assembly</li> </ul>	<ul style="list-style-type: none"> <li>• Water Resistant</li> </ul>	<ul style="list-style-type: none"> <li>• Metal</li> </ul>
<ul style="list-style-type: none"> <li>• Power Supplied</li> </ul>	<ul style="list-style-type: none"> <li>• Fast Set, Room-temperature Cure</li> </ul>	<ul style="list-style-type: none"> <li>• Glass</li> </ul>
	<ul style="list-style-type: none"> <li>• RoHS Compliant</li> </ul>	<ul style="list-style-type: none"> <li>• Ceramic</li> </ul>

#### Typical Properties of Uncured Material\*

Chemical Class	2K Silicone
Color (Part A / Part B)	Grey / White
Viscosity, Part A @25°C, @10RPM, cps	5000 – 15000
Viscosity, Part B @25°C, @10RPM, cps	5000 – 15000
Mixed Viscosity @25°C, @10RPM, cps	15000
Mixed Specific Gravity	2.9 – 3.2
Mix Ratio, PBV (A:B)	1:1
Cleanup Solvent	Isopropyl alcohol

#### Cure Guidelines\*

Pot Life @ 25°C, minutes	20
Set Time @ 25°C, minutes	30 – 60
Cure Time @ RT, hours	4
Cure Time @ 125°C, minutes	15

#### Typical Properties of Cured Material\*

Durometer, Shore A	20 – 30
Young's Modulus, MPa	2.2
Crystalline Melting Temperature (T <sub>m</sub> ), °C	-58.7
Dielectric Strength, Volt/mil	280
Dielectric Constant, 2.5 MHz	5.67
Volumetric Resistivity, Ω*cm	2.10 * 10 <sup>12</sup>
CTE, ppm, Above T <sub>g</sub>	290
Dissipation Factor, 2.5 MHz	0.002
Thermal Conductivity, W/m °K	> 3.4
Flammability**	UL 94 V0

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

\*\*Flammability tested in-house with 3mm thick samples using identical conditions as UL94 flame chamber.

#### Storage

Both part A and part B need to be thoroughly remixed individually prior to use. Store between 8°C and 28°C in tightly closed 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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