

ThermoSink 35-1

Thermally Conductive Potting Silicone

TECHNICAL DATA **July 2016**

Product Description

ThermoSink 35-1 is a two-component, flowable, thermally conductive silicone elastomer that cures rapidly at room temperature. It is designed for electrical potting and/or thermal interfacial applications where high-performance thermal management is required.

APPLICATIONS	FEATURES	SUBSTRATES	PACKAGING
<ul style="list-style-type: none"> Automotive Electronic Assembly Power Supplies 	<ul style="list-style-type: none"> Thermally Conductive Water Resistant Fast Set, RT Cure RoHS Compliant 	<ul style="list-style-type: none"> Engineered Plastic Metal Ceramic Glass 	<ul style="list-style-type: none"> 25KG plastic pails

TYPICAL PROPERTIES OF UNCURED MATERIAL		
Property	Value, Part A	Value, Part B
Chemical Class	Silicone	Silicone
Appearance	Grey	White
Viscosity, 10 RPM, cps	10,000 - 35,000	10,000 - 35,000
Typ. Mixed Viscosity, 10RPM, cps	40,000	
Mixed Specific Gravity (g/cc)	2.9 - 3.3	
Mix Ratio By Volume	1	1

TYPICAL PROPERTIES OF CURED MATERIAL	
Property	Value
Thermal Conductivity (w/mK)	>3.4
Flammability	V0
Dielectric Strength per ASTM D 149	360 V/Mil
Dielectric Constant per ASTM D 150	1KHz, 5.93 10KHz, 5.82 100KHz 5.71
Dissipation Factor per ASTM D 150	1KHz, 0.0036 10KHz, 0.0025 100KHz 0.0015
Volume Resistivity per ASTM D 257 (Ohm-Cm)	1.6 x 10E12
Hardness (Shore A)	45 - 55

*All properties indicate typical values which are not meant to be used for preparing specifications.

*Both Part A and Part B need to be thoroughly remixed individually prior to use

PROCESSING	
Pot Life	10 minutes
Cure Options	120 minutes @ RT <5 minutes at 125°C
Clean-Up Solvent	Isopropyl Alcohol
Machine flushing solvent	Dow Corning OS-20 (HMDSO) or equivalent

SHELF LIFE, STORAGE TEMP

6 Months from DOM @ 18 ± 10°C

THIS MATERIAL IS SOLD FOR INDUSTRIAL USE ONLY

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