

ThermoSink 35-3

Thermally Conductive Silicone

TECHNICAL DATA
July 2018
Product Description

ThermoSink 35-3 is a two-component, low viscosity, thermally conductive silicone elastomer that cures rapidly at room temperature. It is designed for electrical potting and/or thermal interface applications where high-performance heat transfer and 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, (cP)	10,000 - 22,000	10,000 - 22,000
Typ. Mixed Viscosity, 10RPM, (cP)	15,000	
Mixed Specific Gravity (g/cc)	2.9 - 3.2	
Mix Ratio By Volume	1	1

TYPICAL PROPERTIES OF CURED MATERIAL

Property	Value
Hardness (Shore A)	45 - 55
Thermal Conductivity	>3.4W/mK
Flammability per UL94	V0**
Dielectric Strength per ASTM D 149	280
Dielectric Constant per ASTM D 150	5.67 @2.5MHz
Dissipation Factor per ASTM D150	0.002 @2.5MHz
Volume Resistivity per ASTM D 257	3.6 E16 (Ohm-Cm)
Total Mass Loss per ASTM E595	0.91 (Wt%)
Collected Volatile Condensable Material per ASTM E595	0.33 (Wt %)
Water Vapor Recovered per ASTM E595	0.03
CTE	79 ppm/°C
Young's Modulus	2.2MPa
DSC Heat Flow Tm Transition Temp	-58.7°C

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

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

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

PROCESSING

Pot Life @ 25° C	20 minutes
Set Time @ 25° C	30 - 60 minutes
Cure Options	4hrs @ RT 15 minutes at 125°C
Clean-Up Solvent	Isopropyl alcohol

SHELF LIFE, STORAGE
6 months from DOM, 18° ± 10°C
THIS MATERIAL IS SOLD FOR INDUSTRIAL USE ONLY

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