

Technical Data Sheet

PR5540

Heat Transfer Silicone Gel

FEATURES

- Easy to apply
- Excellent dielectric properties
- Stable and flexible from - 65° to 400°F (-55°C to 204°C)
- Complies with requirements for - FDA 21 CFR 178.3570

COMPOSITION

- Silicone
- Various metal additives

APPLICATIONS

Heat Transfer compounds are designed for promoting heat dissipation in electrical and electronic devices. Some of the more common applications include:

- Mounting Power Supplies, semiconductor devices and transistors
- Thermocouple and Thermometer wells
- Heat Transfer on ballasts and thermal joints
- Semiconductors in sound systems
- Transistors in automotive electronics
- Automotive voltage regulators, rectifiers, distributors, and ignition modules
- High voltage corona-suppressant for flyback transformers in TV sets
- Mica Chips
- Crankcase Heaters

PR5540 Heat Transfer Silicone Gel is a metal thickened silicone heat transfer compound that offers some of the greatest thermal conductivity properties compared to other silicone compounds. It has high temperature stability up to 177°C (350° F), making it ideal for an effective thermal coupling.

TYPICAL PROPERTIES

The values reported on this sheet should not solely be used for preparing specifications on this product. Please contact PremierRepak, Inc. for assistance in preparing a specification.

Property	Test Method	Typical Value
Color		White, homogenous
Specific Gravity	ASTM D 792	2.5
Bleed, (150°C /24hrs)		0.05
Evaporation, (150°C /24hrs)	CTM-1	0.50%
Penetration, mm/10	ASTM D 217	275
Thermal Conductivity (W/m-K)	Mil C-47113B	0.0010
Arc Resistance, (seconds)		165
Dielectric constant, (1kHz)	ASTM D 150	5.0
Dielectric Strength, 50 MI (0.127mm)	ASTM D 149	210 V/mil (14.3kV/mm)
Volume Resistivity (ohm-cm)	ASTM D 257	4.0x10 ¹⁵
Dissipation Factor (1kHz)	ASTM D 150	0.0016
Temperature Range, °F, °C		-65° to 400°F (-55° to 204°C)

LIMITATIONS

This product is not tested, nor approved for medical or pharmaceutical uses.

PACKAGING

PR5540 is available 142g tubes; 383g grease cartridges; 9kg pail and 124.7kg drums.

Special packaging and private labeling available upon request.