

SILCOOL™ YG6111 THERMALLY CONDUCTIVE DIELECTRIC COMPOUND

Description

SILCOOL YG6111 is a metal oxide-filled silicone oil compound designed to provide superior thermal conductivity. This combination of high purity fillers and silicones results in a smooth, homogeneous, thermally conductive dielectric compound. SILCOOL YG6111 has virtually no oil separation or high temperature weight loss.

Key Features and Typical Benefits

- Superior thermal conductivity
- Extremely low oil bleed
- Little swelling effect on silicone elastomers
- Operating temperature range: -50 °C to 200 °C

Typical Physical Properties

<u>Property</u>	<u>Unit</u>	<u>Value</u>
Appearance		White
Specific Gravity (25 °C)		2.45
Penetration ⁽¹⁾		310
Thermal Conductivity	W/m·K	0.84
Dielectric Constant (60Hz)		5.0
Dissipation Factor (60Hz)		0.006
Volume Resistivity	Ω·cm	2.0 x 10 ¹⁴
Evaporation (150 °C 24 h)	%	0.1
Bleed (150 °C 24 h)	%	0.4

Typical physical properties are average data and should not be used as or to develop product specifications.

⁽¹⁾JIS K 2220

Potential Applications

Momentive Performance Materials thermally conductive compounds can be used in almost any industry, from electronics to automotive to aircraft to the semiconductor industries. YG6111 can be used in semi-conductor devices and thermal joints where it maintains a positive seal which improves the heat transfer. This means that your electrical and electronic components may perform their function at much lower temperatures, thereby potentially increasing their efficiency and prolonging their life. Other applications include TV anode cap seal, power transistor, diodes, rectifiers, radiator fans, heat generating parts and heat exchangers.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

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