

amecthermasol

Paste



- DP series are very soft paste-type gel with excellent thermal conductivity up to 6.5W/m · K.
- Cross-linked particles of the eliminate running and vaporization seen with grease and phase change materials.
- Electrically isolative, DP series are ideal for electronic devices.
- DP series with low thermal dependency, has a wide operating temperature range from -20 up to 200°C (-4 up to 392°F) for a long time.
- DP series have very high dielectric properties up to 1.4×10^{14} ohm · cm.
- DP series have a very low dissipation factor down to 0.0004 @ 1 Mhz.
- Three (3) types of DP series are available according to conductivity and hardness.

Specification:

Item		Paste-type Thermal Gel DP Series			Remark
		DP-100	DP-200	DP-300	
Thermal Conductivity	Our tests	6.5	4.8	4.8	Std.
	Hot Wire Method *	2.1	1.6	1.6	JIS R 2618
Appearance		Gray paste	Gray paste	White Paste	-
Specific gravity		2.8	2.6	2.7	JIS K 6249
Hardness (Cone penetration · 1/10mm not mixed)		45	55	60	JIS K 6249 (1/4 cone)
Specific volume resistance ratio		5.9×10	7.2×10	1.4×10	JIS C 2101

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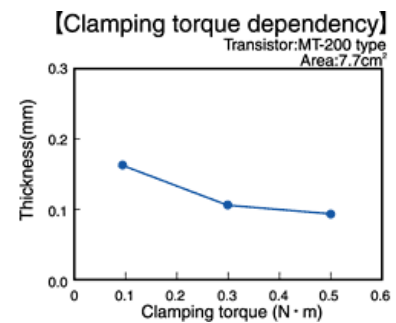
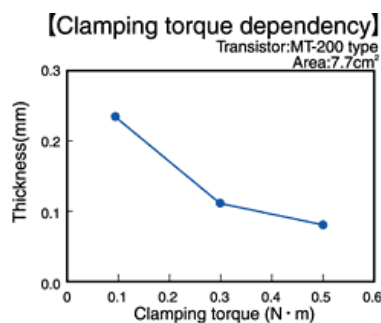
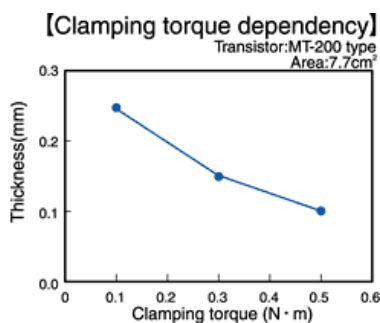
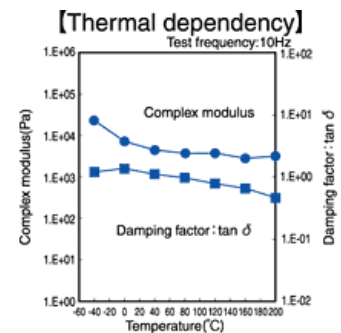
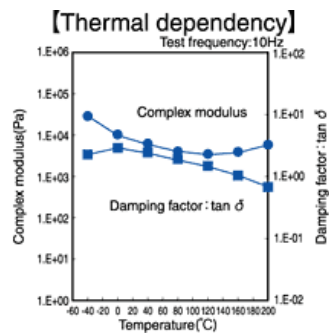
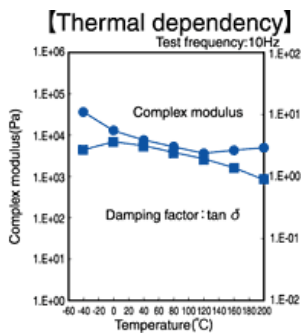
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(Ohm · cm)					
Dielectric constant	<50Hz>	8.9	7.6	4.4	JIS C 2101
	<1kHz>	7.8	6.7	4.2	JIS C 2101
	<1MHz>	7.0	6.6	4.0	JIS C 2101
Dielectric dissipation factor	<50Hz>	0.234	0.017	0.005	JIS C 2101
	<1kHz>	0.061	0.007	0.004	JIS C 2101
	<1MHz>	0.015	0.005	0.0004	JIS C 2101
Dielectric breakdown voltage (kV/mm)		5.0	5.6	9.6	JIS C 2101
Low molecular weight siloxane level D4 to D10 (ppm)		Not more than 700	Not more than 900	Not more than 300	Solvent extraction method
Temperature range (°C)		-40 to 200	-40 to 150	-40 to -120	-

Technical Date:



Thickness (mm)	0.15	0.20	0.30
Thermal Resistance (°C/W)	0.13	0.15	0.18

Thickness (mm)	0.10	0.20	0.30
Thermal Resistance (°C/W)	0.13	0.17	0.22

Thickness (mm)	0.15	0.20	0.30
Thermal Resistance (°C/W)	0.09	0.17	0.25

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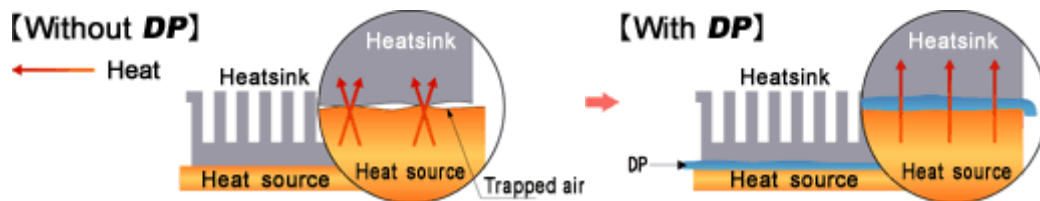
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The Flow of Heat:

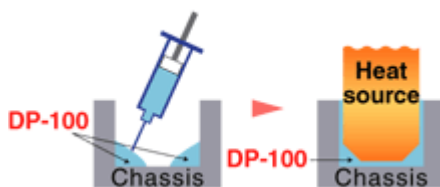


Suggested Uses:

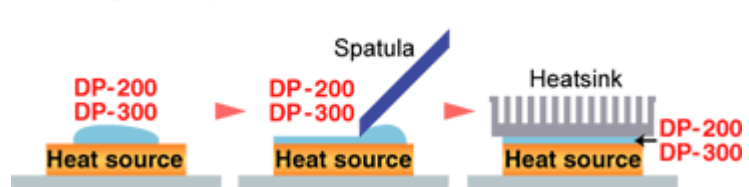
- Gaps around heat sources such as high performance semiconductors.
- The surface, underside and lead lines of heat sources such as IC's.
- Sources of heat where it is difficult to fix sheet-type thermal gel.
- Where there is insufficient room for thermal conductive material.



【Filling example DP-100】



【Coating example DP-200/DP-300】



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