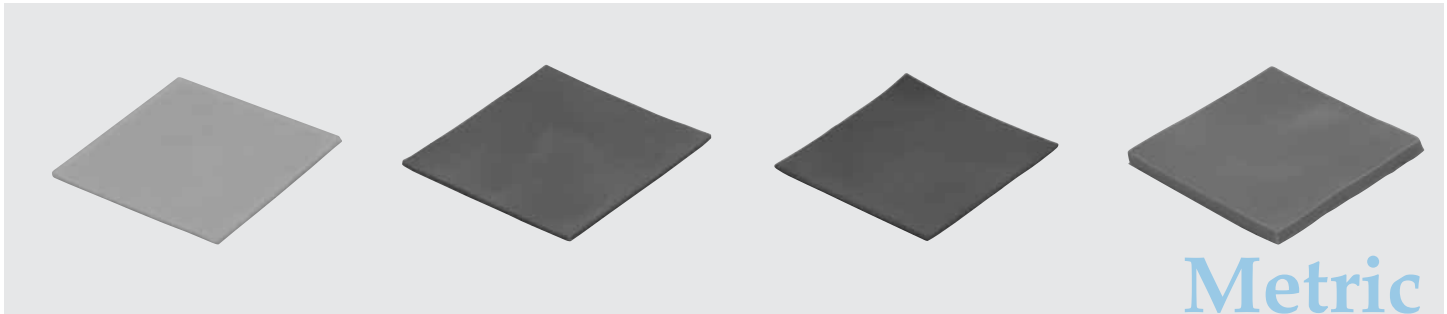




Silicone Gel Sheets – Technical Information

www.vibrationmounts.com Phone: 516.328.3662 Fax: 516.328.3365

- **MATERIAL:** Soft Sheet-Type Gel, 400 x 400 mm (15.7 x 15.7 in.)
RoHS Controlled Substance: Assayed by SGS Far East Ltd.



FEATURES:

- Control & dissipation of heat in electronic components
- Very soft sheet-type silicone gel
- Good electrical insulators & flame retardant.
UL-94 V-0 approved
- Usable over a wide temperature range:
-40°C to +150°C (-40°F to +302°F)

APPLICATIONS

- COMPUTER INTERNAL COMPONENTS
(CPU, MOTHERBOARD, ETC.)
- POWER TRANSISTORS, POWER SUPPLY EQUIPMENT
- ELECTRONIC PARTS, SUCH AS SEMICONDUCTORS
THAT PRODUCE HEAT

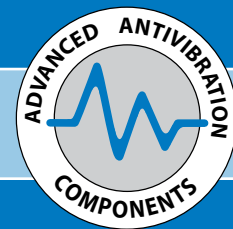
Catalog Number	Thermal Conductivity W/m · k		Gel Color	Specific Gravity	Hardness Shore 00	Specific Volume Resistance Ratio $\Omega \cdot \text{cm}$	Dielectric Constant			Dielectric Dissipation		
	Mfg. Tests	Hot Wire Method*					50 Hz	1 kHz	1 MHz	50 Hz	1 kHz	1 MHz
V30Z62MCH1002..	1.8	1	White	1.7	30	7.7×10^{13}	7.3	4.8	3.9	0.290	0.153	0.013
V30Z62MCH2003..	3.5	1.4	Orange	2.1	48	1×10^{12}	6.1	5.2	4.5	0.106	0.067	0.017
V30Z62MCH4000..	6.5	2.1	Gray	2.8	57	5.7×10^{12}	8.6	7.6	7.4	0.198	0.082	0.054
V30Z62MCH4000..L	6.5	2.1	Gray	2.9	55	7.09×10^{12}	5.6	5	5.5	0.006	0.002	0.0004
V30Z62MCH6000..	1.8	1	Blue	1.7	16	8.70×10^{13}	5.2	3.7	3.4	0.115	0.057	0.005

Catalog Number	Tensile Strength MPa	Elongation %	Compression Set %	Dielectric Breakdown Voltage kV/mm	Low Molecular Weight Siloxane Level $\Sigma\text{D4} - 10$ ppm		Flame Retardance V-0**	Temperature Range Δ °C (°F)
					Solvent Extraction Method	Head Space Method at 70°C		
V30Z62MCH1002..	0.17	164	69	18	< 600	< 5	1.0 ~ 3.5 mm thk.	-40 to +150 (-40 to +302)
V30Z62MCH2003..	0.23	115	78	15.7	< 700	< 1	0.5 ~ 3.5 mm thk.	-40 to +120 (-40 to +248)
V30Z62MCH4000..	0.12	220	92	7.2	< 300	< 1	0.5 ~ 3.5 mm thk.	-40 to +150 (-40 to +302)
V30Z62MCH4000..L	0.35	68	72	12.5	< 13	—	0.5 ~ 3.5 mm thk.	-40 to +150 (-40 to +302)
V30Z62MCH6000..	0.15	350	49	12.5	< 60	< 1	0.5 ~ 5.0 mm thk.	-40 to +150 (-40 to +302)

*Test performed using the QTM-500 meter, Kyoto, Electronics Manufacturing Co. LTD.

**V30Z62MCH1002.. Flame Retardance: V-1 (0.5 mm thk.)

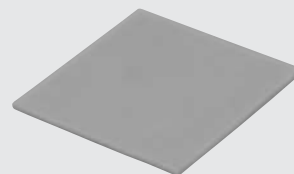
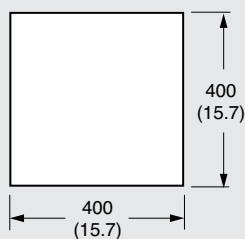
Δ **WARNING:** Test before use under actual conditions. Temperature range may vary with application.



Silicone Gel Sheets – 1002 Series

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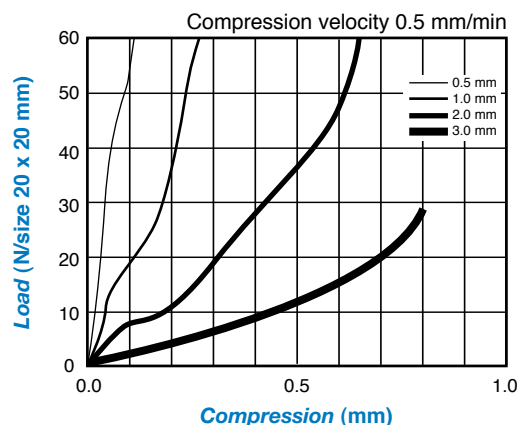
- **MATERIAL:** Soft Sheet-Type Gel, White



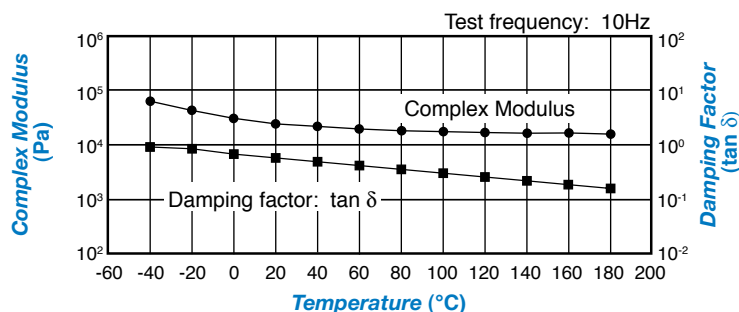
Metric

NOTE: Dimensions in () are inch.

COMPRESSION



THERMAL DEPENDENCY



TEMPERATURE RANGE: -40°C to +150°C (-40°F to +302°F)^Δ

Transistor: TO-3 Type Heat Input: 20W

Catalog Number	Thickness mm (in.)	Thermal Resistance °C/W Compression Rate		
		10%	20%	30%
V30Z62MCH100205	0.5 (.02)	0.38	0.31	0.24
V30Z62MCH100210	1 (.04)	0.99	0.86	0.72
V30Z62MCH100220	2 (.08)	2.22	1.84	1.67
V30Z62MCH100230	3 (.12)	3.44	3.03	2.62

Catalog Number	Thermal Conductivity W/m · k		Gel Color	Specific Gravity	Hardness Shore 00	Specific Volume Resistance Ratio Ω · cm	Dielectric Constant			Dielectric Dissipation		
	Mfg. Tests	Hot Wire Method*					50 Hz	1 kHz	1 MHz	50 Hz	1 kHz	1 MHz
V30Z62MCH1002..	1.8	1	White	1.7	30	7.7 x 10 ¹³	7.3	4.8	3.9	0.290	0.153	0.013

Catalog Number	Tensile Strength MPa	Elongation %	Compression Set %	Dielectric Breakdown Voltage kV/mm	Low Molecular Weight Siloxane Level ΣD4 - 10 ppm		Flame Retardance V-0**
					Solvent Extraction Method	Head Space Method at 70°C	
V30Z62MCH1002..	0.17	164	69	18	< 600	< 5	1.0 ~ 3.5 mm thk.

*Test performed using the QTM-500 meter, Kyoto, Electronics Manufacturing Co. LTD.

**V30Z62MCH1002.. Flame Retardance: V-1 (0.5 mm thk.)

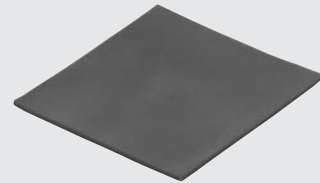
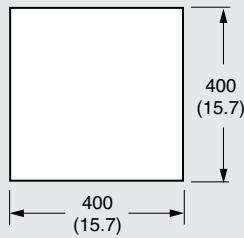
^ΔWARNING: Test before use under actual conditions. Temperature range may vary with application.



Silicone Gel Sheets – 2003 Series

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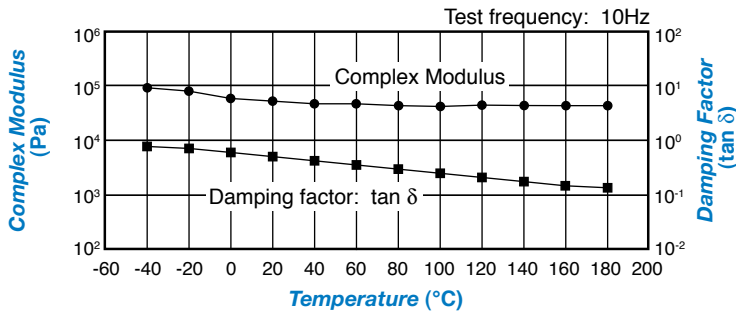
- **MATERIAL:** Soft Sheet-Type Gel, Orange



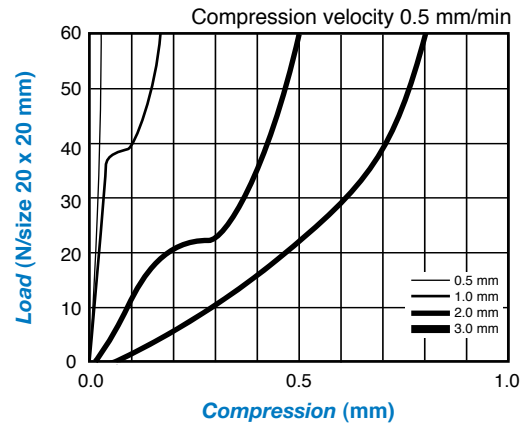
Metric

NOTE: Dimensions in () are inch.

THERMAL DEPENDENCY



COMPRESSION



TEMPERATURE RANGE: -40°C to +150°C (-40°F to +302°F)^Δ

Transistor: TO-3 Type Heat Input: 20W

Catalog Number	Thickness mm (in.)	Thermal Resistance °C/W Compression Rate		
		10%	20%	30%
V30Z62MCH200305	0.5 (.02)	0.30	0.25	0.20
V30Z62MCH200310	1 (.04)	0.75	0.65	0.55
V30Z62MCH200320	2 (.08)	1.65	1.45	1.25
V30Z62MCH200330	3 (.12)	2.56	2.26	1.96

Catalog Number	Thermal Conductivity W/m · k		Gel Color	Specific Gravity	Hardness Shore 00	Specific Volume Resistance Ratio Ω · cm	Dielectric Constant			Dielectric Dissipation		
	Mfg. Tests	Hot Wire Method*					50 Hz	1 kHz	1 MHz	50 Hz	1 kHz	1 MHz
V30Z62MCH2003..	3.5	1.4	Orange	2.1	48	1 x 10 ¹²	6.1	5.2	4.5	0.106	0.067	0.017

Catalog Number	Tensile Strength MPa	Elongation %	Compression Set %	Dielectric Breakdown Voltage kV/mm	Low Molecular Weight Siloxane Level ΣD4 - 10 ppm		Flame Retardance V-0
					Solvent Extraction Method	Head Space Method at 70°C	
V30Z62MCH2003..	0.23	115	78	15.7	< 700	< 1	0.5 ~ 3.5 mm thk.

*Test performed using the QTM-500 meter, Kyoto, Electronics Manufacturing Co. LTD.

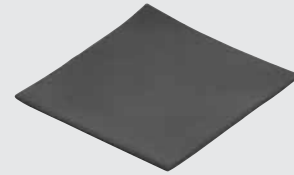
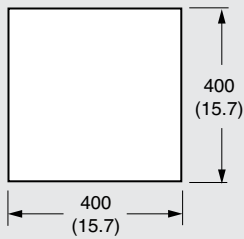
^ΔWARNING: Test before use under actual conditions. Temperature range may vary with application.



Silicone Gel Sheets – 4000 Series

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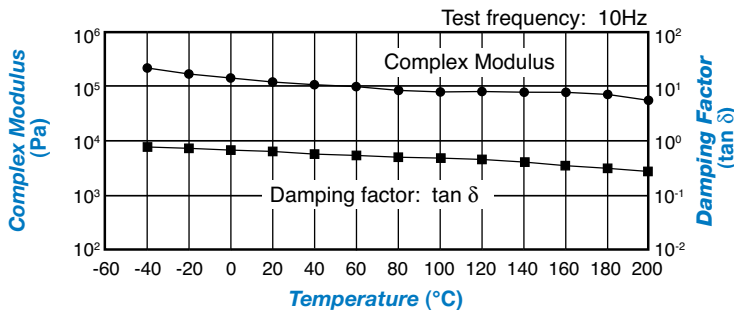
- **MATERIAL:** Soft Sheet-Type Gel, Gray



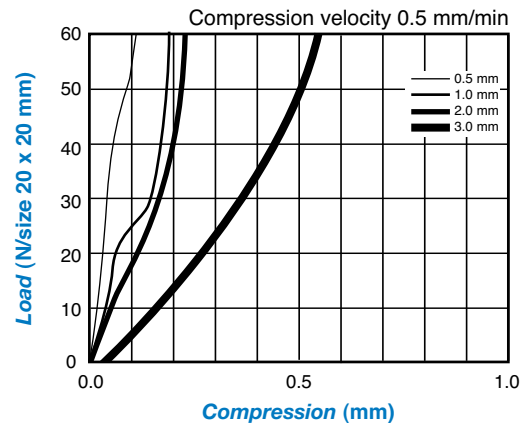
Metric

NOTE: Dimensions in () are inch.

THERMAL DEPENDENCY



COMPRESSION



TEMPERATURE RANGE: -40°C to +150°C (-40°F to +302°F)^Δ

Transistor: TO-3 Type Heat Input: 20W

Catalog Number	Thickness mm (in.)	Thermal Resistance °C/W Compression Rate		
		10%	20%	30%
V30Z62MCH400005 V30Z62MCH400005L	0.5 (.02)	0.14	0.10	0.06
V30Z62MCH400010 V30Z62MCH400010L	1 (.04)	0.46	0.39	0.32
V30Z62MCH400020 V30Z62MCH400020L	2 (.08)	1.11	0.97	0.82
V30Z62MCH400030 V30Z62MCH400030L	3 (.12)	1.77	1.55	1.33

Catalog Number	Thermal Conductivity W/m · k		Gel Color	Specific Gravity	Hardness Shore 00	Specific Volume Resistance Ratio Ω · cm	Dielectric Constant			Dielectric Dissipation		
	Mfg. Tests	Hot Wire Method [*]					50 Hz	1 kHz	1 MHz	50 Hz	1 kHz	1 MHz
V30Z62MCH4000..	6.5	2.1	Gray	2.8	57	5.7 x 10 ¹²	8.6	7.6	7.4	0.198	0.082	0.054
V30Z62MCH4000..L	6.5	2.1		2.9	55	7.09 x 10 ¹²	5.6	5	5.5	0.006	0.002	0.004

Catalog Number	Tensile Strength MPa	Elongation %	Compression Set %	Dielectric Breakdown Voltage kV/mm	Low Molecular Weight Siloxane Level ΣD4 - 10 ppm		Flame Retardance V-0
					Solvent Extraction Method	Head Space Method at 70°C	
V30Z62MCH4000..	0.12	220	92	7.2	< 300	< 1	0.5 ~ 3.5 mm thk.
V30Z62MCH4000..L	0.35	68	72	12.5	< 13	—	0.5 ~ 3.5 mm thk.

^{*}Test performed using the QTM-500 meter, Kyoto, Electronics Manufacturing Co. LTD.

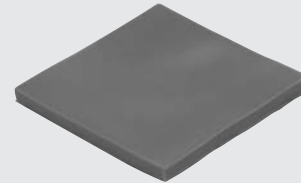
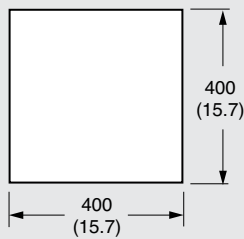
^ΔWARNING: Test before use under actual conditions. Temperature range may vary with application.



Silicone Gel Sheets – 6000 Series

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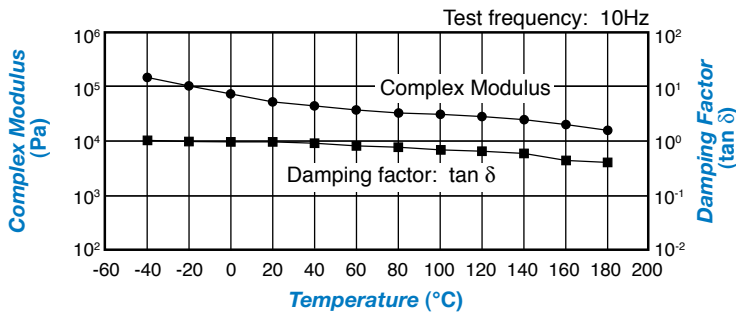
- **MATERIAL:** Soft Sheet-Type Gel, Blue



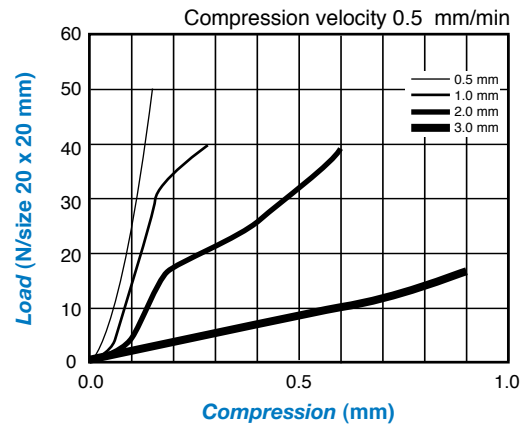
Metric

NOTE: Dimensions in () are inch.

THERMAL DEPENDENCY



COMPRESSION



TEMPERATURE RANGE: -40°C to +150°C (-40°F to +302°F)^Δ

Transistor: TO-3 Type Heat Input: 20W

Catalog Number	Thickness mm (in.)	Thermal Resistance °C/W Compression Rate		
		10%	20%	30%
V30Z62MCH600005	0.5 (.02)	0.36	0.28	0.22
V30Z62MCH600010	1 (.04)	0.97	0.85	0.68
V30Z62MCH600020	2 (.08)	2.11	1.89	1.65
V30Z62MCH600030	3 (.12)	3.11	2.86	2.50

NOTE: 5 mm thick gel sheet 300 mm x 300 mm is available on request.

Catalog Number	Thermal Conductivity W/m · k		Gel Color	Specific Gravity	Hardness Shore 00	Specific Volume Resistance Ratio Ω · cm	Dielectric Constant			Dielectric Dissipation		
	Mfg. Tests	Hot Wire Method*					50 Hz	1 kHz	1 MHz	50 Hz	1 kHz	1 MHz
V30Z62MCH6000..	1.8	1	Blue	1.7	16	8.7 x 10 ¹³	5.2	3.7	3.4	0.115	0.057	0.005

Catalog Number	Tensile Strength MPa	Elongation %	Compression Set %	Dielectric Breakdown Voltage kV/mm	Low Molecular Weight Siloxane Level ΣD4 - 10 ppm		Flame Retardance V-0
					Solvent Extraction Method	Head Space Method at 70°C	
V30Z62MCH6000..	0.15	350	49	12.5	< 60	< 1	0.5 ~ 5 mm thk.

*Test performed using the QTM-500 meter, Kyoto, Electronics Manufacturing Co. LTD.

^ΔWARNING: Test before use under actual conditions. Temperature range may vary with application.