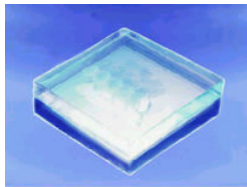




## SOFT SILICONE GEL SHEET



- Ultra Soft High Damping Gel.
- Ideal for Components & Enclosures Isolation.
- High Performance at 2mm+ Thickness.
- -40°C to 200°C Operating Temperature.

Ultra soft silicone gel sheet from just Shore A6 hardness for reducing structureborne vibrations and shock absorption. High shock absorption ideal for broad temperature range, extreme shock and vibration environments. Is soft enough to have enough warp for high damping and shock absorbing performance. An egg dropped from 20 meter high does not break on a sheet of this gel. This soft gel absorbs micro and low frequency vibrations not eliminated by rubbers and other damping materials. The gel also absorbs shocks and is soft enough to have enough warp for high damping and shock absorbing performance. Outstanding shock absorption characteristics by means of dispersing impact three dimensionally due to its unique molecular structure.

Low temperature dependency with stable performance from -40°C up to 200°C. Performs in any weather. Excellent chemical resistance. Low compression set with performance staying the same even after repeated use. Contains nothing harmful. Environment friendly. Toxic free when burned.

We have grommets for PCBs and light components tape and chip made of the same soft gel. Also see our soft silicone free gel sheet.

### Material Properties

Gel Type / Unit		A	B	7	5	6	8	Remark
Appearance		Transparent	White	Translucent	Translucent	Translucent	Translucent	-
Hardness	Needle Penetration (1/10mm) (1)	150	100	100	55	-	-	JIS K 2207
	Asker C(2)	-	-	-	-	33	52.5	SRIS 0101
Shore A Equivalent (appx)		6	10	10	14	20	28	-
Specific Gravity		0.98	0.56	1.06	1.05	1.06	1.07	-
Tensile Strength		0.03	0.14	0.23	1.17	1.58	2.35	JIS K 6251
Elongation %		340	220	480	710	480	300	JIS K 6251
Young Modulus (kPa)		28.9	150.7	37.5	119.5	670.3	1432.6	-
Specific Heat (j/g.K)		1.55	1.61	1.51	1.52	1.51	1.52	DSC
Thermal Conductivity (W/m.K)		0.18	0.10	0.20	0.20	0.20	0.20	-
Specific Volume Resistance Ratio (Ohms-cm)		2.1 * 10 <sup>14</sup>	3.7 * 10 <sup>12</sup>	2.9 * 10 <sup>14</sup>	4.0 * 10 <sup>14</sup>	4.0 * 10 <sup>14</sup>	6.6 * 10 <sup>14</sup>	JIS K 6911
Dielectric Breakdown Strength (kV/m)		16.7	17.1	16.3	15.1	18.4	18.7	JIS K 2110
Chemical Resistance	Toluene	X	X	X	X	X	X	JIS K 6258 Room Temp x 168h
	Acetone	X	X	X	X	X	X	
	Methanol	O	X	O	O	O	O	
	Distilled H <sub>2</sub> O	O	O	O	O	O	O	
	Fuel	X	X	X	X	X	X	
	Lubricant	X	X	X	X	X	X	
	NaCl (10%)	O	O	O	O	O	O	
	HCl (10%)	O	O	O	O	O	O	
Normal Temperature Range (°C)		-40 to 120	-40 to 120	-40 to 200	-40 to 200	-40 to 200	-40 to 200	-

(1) The needling depth into the gel represents the hardness.

(2) Rubber Hardness Meter. Hardness is represented by rebounding distance when needle contacts the gel surface.

#### Gelmecc UK

Marcom House, 1-2 Steam Mill Lane, Great Yarmouth, Norfolk, NR31 0HP

Telephone: +44(0) 1493 668622 Fax: +44(0) 1493 668623

Email: sales@gelmecc.co.uk Website: www.gelmecc.co.uk