

## Thermal Conductive Silicone Cloth

Silicon cloth is base on glass fiber and polyimide film as the backing material , to reinforce the organic silicon and polymer elastomeric, also known as thermal conductive silicone cloth, tearing resistant silicone cloth. This kind of silicone cloth can effectively reduce thermal resistance between the electronic component and the radiator, and good electrical insulation, high dielectric strength, good thermal conductivity, high chemical performance , can resist high voltage and metal parts pierced problem lead to a short circuit ,is a good thermal insulation material to instead of the traditional mica and silicone grease .

### Advantage & Feature :

Soft surface, good thermal conductivity and toughness tear resistance, high dielectric strength, strong wear resistance, excellent performance of high voltage insulation, no surface viscosity, thickness thin, suitable use for power device of insulation and thermal conductive .

### Application :

Large power source and automobile electronic heating module, motor control, communication equipment, semiconductor, IS MOS tube IGBT chip, strong voltage, high temperature, large power welding machine etc.

### Specifications :

Sheet, die-cutting, roll, with adhesive and without adhesive.

Normal size : 300mm\*50m, 300mm\*76m

Can be customized by customer's requirements processing into sheets of different shapes and thickness , also can add more gum according to demand.

PROPERTIES TABLE								
Test Item (Unit)	Numerical Value							Test Standard
Model No.	BM120	BM150	BM180	BM900S	BM-K4	BM-K6	BM-K10	--
Thickness (mm)	0.23~0.45	0.2~3.0	0.18	0.23	0.16			ASTM D347
Color	Pink/Blue/Grey	Pink/Grey	Grey	Pink	Grey	Green	Yellow	Visual
Thickness Tolerance (mm)	0.02±0.01				0.006±0.01			ASTM D347
Continuous Use Temp(°C)	-60~200							TGA+DMA
Thermal Conductivity (W/m-k)	1.0	1.3	2.0	1.6				ASTM D5470
Volume Resistivity(Ω-cm)	10 <sup>10</sup> ↑	10 <sup>10</sup> ↑	10 <sup>10</sup> ↑	10 <sup>10</sup> ↑	10 <sup>12</sup> ↑	10 <sup>12</sup> ↑	10 <sup>12</sup> ↑	ASTM D257
Breakdown Voltage (KV)	3.5-4.5	4.5	4	5.5	6.0	6.0	6.0	ASTM D149
Hardness(shore A)	70±5°	85±5	85±5°	92±5°	90±5°	90±5°	90±5°	ASTM D2240
Specific Gravity	2.3	2.5	2.6	2.8	3.0	3.0	3.0	ASTM D792
Tensile Strength (kg/cm <sup>2</sup> )	15	18	18	9	34	34	34	ASTM D412
Elongation (%)	3	3	2	20	40	40	40	ASTM D412
EP (12)	Check out							IEC62321
Halogen (4)	Check out							EN14582
Flame Rating	94V-0-1							ULNO:E341634

