

## Conductive Sponge – Silver

### Properties

Material	Silver plated fibres in low density urethane - Non-nickel bearing material	
Colour	Silver	
Thickness (mm)	1mm, 1.5mm, 2mm, 3mm, 4mm or 5mm (all $\pm 0.51$ mm)	
Width (mm)	610mm maximum	
Through Resistivity (3mm thick 1" x 1")	5-50% deflection 0.03 $\Omega$ / sq.in. avg.	
Compression deflection 3mm thick sample ASTM C165 (mod.)	25% - 13.4kPa 50% - 43.4kPa	
Compression Set ASTM D3574	<15%	
Tensile Strength 3mm thick sample	68.3kPa (ASTM D412 mod.)	
Operating Temperature	-40 to +70°C	
Flammability	HF-1 (UL-94)	
Conductive adhesive peel strength	45oz. / inch (PSTC 1 Mod. / 180°)	
Storage considerations	Keep in the dark, do not expose to direct sunlight, keep dry and do not place under heavy objects	

### Through Resistance

<i>Property</i>	<i>Typical Value at 25% Deflection</i>	<i>Typical Value at 50% Deflection</i>	<i>Test Method</i>
Initial Resistance	0.89 $\Omega$ /mm	0.23 $\Omega$ /mm	ASTM C-165 Mod.
Heat Aging	1.22 $\Omega$ /mm	0.46 $\Omega$ /mm	75°C for 168 Hours
High Temperature/ High Humidity	0.43 $\Omega$ /mm	0.25 $\Omega$ /mm	85°C / 95% Relative Humidity for 48 hours
Temperature Cycling	0.97 $\Omega$ /mm	0.71 $\Omega$ /mm	-40°C to +65°C for 96 hours with 30 minute dwell at temperature & 10 minute ramp time
Compression Cycling	1.75 $\Omega$ /mm	0.61 $\Omega$ /mm	1000 compression cycles 0% - 50% deflection

- Available with optional pressure sensitive cross-hatch adhesive.
- RoHS complaint.

