Silicone Rubber Sheet

The following tables and specifications are meant as a guideline applicable to standard 'in-house' technical/external medical grades of silicone sheet to FDA 21 CFR 177.2600 and WRC elastomer approvals, including ex-stock technical grade silicone rubber sheet. A high quality class 2 product, non-implant grade.

Ex stock material colours available: white, R.I.O., Translucent and black. Colour variations to bs or ral spec numbers to special order (chart available) min. 50M.

Polymer type: vmq Electrical specifications to bs2848.

Typical Physical Properties And Values		
Hardness, Shore A ±5° Din 53505	60	
Specific Gravity (Density) Din 53479	1.2	
Tensile Strength, Mpa Din 53504	6.0	
Tear Strength, N/Mm Min. Astm D 624 Form B	17.0	
Elongation At Break, % Din 53504	400	
Brittle Temperature °C	-73°	
Max Operating Temperature Range (Constant)°C	-60°/+250°	
Rebound Resilience Din 53512	30%	
Compression Set (70 Hr. @ 150°C) +/-10% Din 53517	50%	

Electrical (Post-cured samples)		
Volume Resistivity, Cm	1015	
Dielectric Strength, Kv/Mm (1Mm Thick Sample)	23	
Dissipation Factor, Tan (50 Hz)	40X 10 ⁻⁴	
Dielectric Constant (50 Hz)	2.9	

Thermal	
Thermal Conductivity, Watts/Km 0°-90°C (Kelv/M) 90°-260°C	0.15 MAX 0.17



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Calendered Sheet Thickness Tolerances Generally To BS3734 Class E2 (See Price List)			
Nominal Above	Dimension Up To	(Values in mm) +/-	
0.3	0.8	0.10	
0.8	2.5	0.20	
2.5	4.0	0.25	
4.0	6.3	0.35	
6.3	10.0	0.40	

Specific Design Tolerances

Closer tolerances are achievable to a specific design band down to ± 0.1mm. To be agreed prior to manufacture.

