

**TECHNICAL DATA SHEET**  
**SOLID SILICONE SHEET 40, 50, 60 AND 70 SHORE**

**SPECIFICATIONS**

Translucent, White, Blue and Red Oxide variants contain only ingredients that are listed by the American Food and Drug Administration (FDA) under the 21 CFR number 177-2600  
The material is according to REACH and RoSH.

**GENERAL CHARACTERISTICS FOR SILICONE RUBBER**

<b>Brittle Point</b>	<b>-80c(-112f)</b>	<b>ASTM D746</b>
<b>Limiting Oxygen Index</b>	<b>24.0%</b>	<b>BS 2872 PART 1</b>
<b>Thermal Conductivity</b>	<b>0.24 w.tn<sup>-1</sup>.k<sup>-1</sup></b>	<b>VDE 0304</b>
<b>Radiation Resistance</b>	<b>&gt;10(5) grays(10to7 rads)</b>	
<b>Dielectric Strength</b>	<b>23 KV.mm<sup>-1</sup></b>	<b>VDE 0303</b>
<b>Dielectric Constant</b>	<b>2.9</b>	<b>VDE 0303</b>
<b>Dissipation Factor @ 50c/s</b>	<b>3 x 10 to-4</b>	<b>VDE 0303</b>
<b>Volume Resistivity</b>	<b>3 x 10 to 15Ω cm</b>	<b>VDE 0303</b>

**ENVIRONMENTAL RESISTANCE**

Silicone rubber products have an excellent resistance to ozone, oxidation, ultraviolet light, corona discharge, cosmic radiation, ionizing radiation and weathering in general.

**Other grades of silicone rubber available are:**

**Cellular silicone products, high temperature grades, high tear grades,  
flame retardant grades, low combustion hazard grades, metal detectable grades,  
custom compounds.**

**SILICONE SHEET 60 SHORE**

Property	Typical Values	Units Measured In
<b>HARDNESS</b>	60	SHORE A
<b>compression set</b>	15%	22 hrs @ 300 F
<b>compression set</b>	17%	24 hrs @ 150c
<b>TEAR STRENGTH</b>	14.7	N/mm
<b>ELONGATION @ BREAK</b>	360	%
<b>TENSILE STRENGTH</b>	1523	PSI
<b>DENSITY</b>	1.2	SG
<b>TEMPERATURE</b>	-40 + 200	CENTIGRADE

**SILICONE SHEET 50 SHORE**

Property	Typical Values	Units Measured In
<b>Hardness</b>	50	SHORE A
<b>Compression Set</b>	24%	22hrs @ 300 F
<b>Compression Set</b>	23%	24 hrs @ 150 C
<b>Tear Strength</b>	14.5	N/mm
<b>Elongation @ Break</b>	480	%
<b>Tensile Strength</b>	11.2	MPa
<b>TEMPERATURE</b>	-40 + 200	CENTIGRADE

**SILICONE SHEET 70 SHORE**

Property	Typical Values	Units Measured In
<b>HARDNESS</b>	70	SHORE A
<b>compression set</b>	25%	24 hrs @ 150c
<b>compression set</b>	22%	22 hrs @ 300 F
<b>TEAR STRENGTH</b>	12.2	N/mm
<b>ELONGATION @ BREAK</b>	269	%
<b>TENSILE STRENGTH</b>	1106	PSI
<b>TEMPERATURE</b>	-40 + 200	CENTIGRADE

**SILICONE SHEET 40 SHORE**

Property	Typical Values	Units Measured In
<b>HARDNESS</b>	40	SHORE A
<b>compression set</b>	22%	24 hrs @ 150c
<b>compression set</b>	21%	22 hrs @ 300 F
<b>TEAR STRENGTH</b>	14.0	N/mm
<b>ELONGATION @ BREAK</b>	550	%
<b>TENSILE STRENGTH</b>	1610	PSI
<b>TEMPERATURE</b>	-40 + 200	CENTIGRADE