

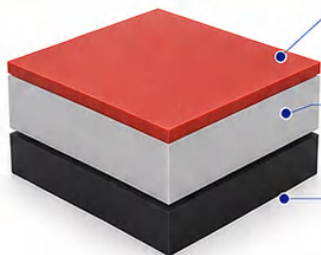


SOLID SILICONE RUBBER SHEET

TECHNICAL SPECIFICATIONS



1 MATERIAL STRUCTURE



Solid Silicone Surface

Smooth, durable, and resistant to abrasion and chemicals.

High Purity Silicone Core

High tensile strength, excellent elasticity and tear resistance.

Dense Silicone Base

Provides excellent stability, compression resistance and long service life.

2 THICKNESS OPTIONS

Thickness (mm)	0.5	1	2	3	5	8	10	12	15	20	25	40	50
Tolerance (mm)	±0.1	±0.1	±0.2	±0.2	±0.2	±0.3	±0.3	±0.3	±0.5	±0.5	±0.5	±1.0	±1.0

3 STANDARD SHEET SIZE

Item	Size (mm)
Width	500, 1000, 1200, 1500
Length	500, 1000, 1200, 1500, 2000

• Other sizes can be customized.

4 MECHANICAL PROPERTIES

Property	Test Method	Unit	Typical Value
Tensile Strength	ASTM D412	MPa	≥ 7.0
Elongation at Break	ASTM D412	%	≥ 250
Tear Strength	ASTM D624	kN/m	≥ 20
Compression Set (22h, 200°C)	ASTM D395	%	≤ 30
Hardness	ASTM D2240	Shore A	20 ~ 80
Density	ASTM D792	g/cm ³	1.10 ~ 1.25

5 THERMAL PROPERTIES

Operating Temperature	-60°C ~ +230°C
Short-term Temperature	Up to +250°C
Low Temperature Flexibility	-60°C
Thermal Conductivity	0.20 W/m·K
Flammability	UL94 V-0 (Optional)
Weather & Ozone Resistance	Excellent
Aging Resistance	Excellent

6 HARDNESS OPTIONS (SHORE A)

20	30	40	50	60	70	80
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• Other hardness can be customized.

7 COLOR OPTIONS

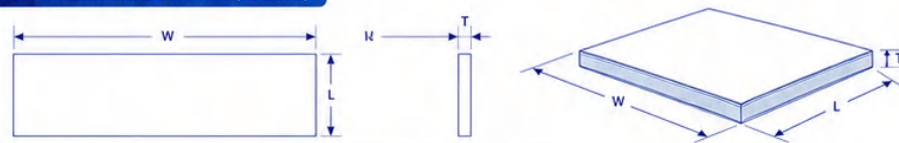


• Other colors can be customized.

8 TYPICAL APPLICATIONS

Industrial Sealing	Automotive Industry
Food Processing Equipment	High Temperature Gaskets
Medical Devices	Machinery Vibration Damping
Electrical Insulation	OEM Custom Components

9 DIMENSIONAL DRAWING (REFERENCE)



W = Width
L = Length
T = Thickness

10 GENERAL SPECIFICATIONS

Property	Test Method	Unit	Typical Value / Range	Remarks
Dielectric Strength	ASTM D149	kV/mm	≥ 20	2.0 mm thickness
Volume Resistivity	ASTM D257	Ω·cm	≥ 1.0 × 10 ¹⁴	
Surface Resistivity	ASTM D257	Ω	≥ 1.0 × 10 ¹³	
Dielectric Constant (1kHz)	ASTM D150	—	2.8 ~ 3.2	
Dissipation Factor (1kHz)	ASTM D150	—	≤ 0.005	
Water Absorption (24h)	ASTM D570	%	≤ 0.5	
Chemical Resistance	—	—	Excellent	Resistant to acids, alkalis, oils, solvents and many chemicals.

* The above data are typical values, not for specification purposes.