

SILEX

SILICONES



Certificate No. 0372

Solid Silicone Reinforced Sheet

Grades 60° shore

Temperature Range -60°C (-76°F) to 230°C (446°F) and up to 250°C (482°F) intermittent short term

Specifications

1 ply glass reinforced high quality silicone sheet.

Environment Resistance

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

Availability

Supplied in continuous roll lengths

Widths of 1000mm

Capability to colour match.

General Characteristics

Test	Result	Standard
Brittle point	-80°C (-112°F)	ASTM D746
Limiting Oxygen Index	24.0%	BS 2782 Part 1
Thermal Conductivity	0.24 W.m ⁻¹ .K ⁻¹	VDE 0304
Radiation Resistance	>10 ⁵ Grays (10 ⁷ Rads) typical	
Dielectric Strength	23 kV.mm ⁻¹	VDE 0303
Dielectric Constant	2.9	VDE 0303
Dissipation Factor	3x10 ⁻⁴	VDE 0303
Volume Resistivity	3x10 ¹⁵ Ω.cm	VDE 0303

Typical Applications

Reinforced gaskets, seals and fabrications.

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SILEX Limited

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Directors: N J R Soudah S. J Fearn

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Mechanical Properties

Property	Units	60° shore		Test Method
		Spec Limits	Typical Value	
Hardness	Shore A	60±5	61	ASTM D2240 DIN 53505
Tensile Strength	MPa Psi	5.5 min 798 min	7.1 1030	BSISO 37 ASTM D412 die C
Elongation to Failure	%	200 min	255	BSISO 37 ASTM D412 die C
Tear Strength	N/mm Lb./in.	10.0 min 57 min	14.7 84	ASTM D624 die B

Fabric – Glass Cloth Properties

Property	Units	Value
Composition	Warp Weft	Glass Glass
Weight	g/m ²	204
Warp Count	d'tex	680
Weft Count	d'tex	680
Weave		Plain
Thickness	mm	0.2
Reference		EKC16

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