

# kSil™ VAC

## High Tear Solid Silicone Elastomer Sheeting

[VAC]

### Grades

kSil™ VAC40    kSil™ VAC45    kSil™ VAC50    kSil™ VAC60

### Temperature Range

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

### Specifications

These products meet the flammability requirements of FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(iv) and (a)(1)(v) horizontal flammability tests and Automotive Standard PART 571FMVSS302.

- High tear strength
- High elongation properties
- Improved abrasion resistance
- Tear-stop technology
- Increased durability and lifespan

### 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

Mouldings

Sheeting

Gaskets

Cables

Extrusions

Compound

Tubing

### Availability

- Supplied in continuous roll lengths.
- Widths of up to 1800mm.
- 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 <sup>-1</sup> .K <sup>-1</sup>	VDE 0304
Radiation Resistance	>10 <sup>5</sup> Grays (10 <sup>7</sup> Rads) typical	
Dielectric Strength	23 kV.mm <sup>-1</sup>	VDE 0303
Dielectric Constant	2.9	VDE 0303
Dissipation Factor	3x10 <sup>-4</sup>	VDE 0303
Volume Resistivity	3x10 <sup>15</sup> Ω.cm	VDE 0303

### Typical Applications

Membranes in vacuum forming machines.  
Used in industries such as: Aerospace, Automotive, Composites, Energy and Furniture Lamination.



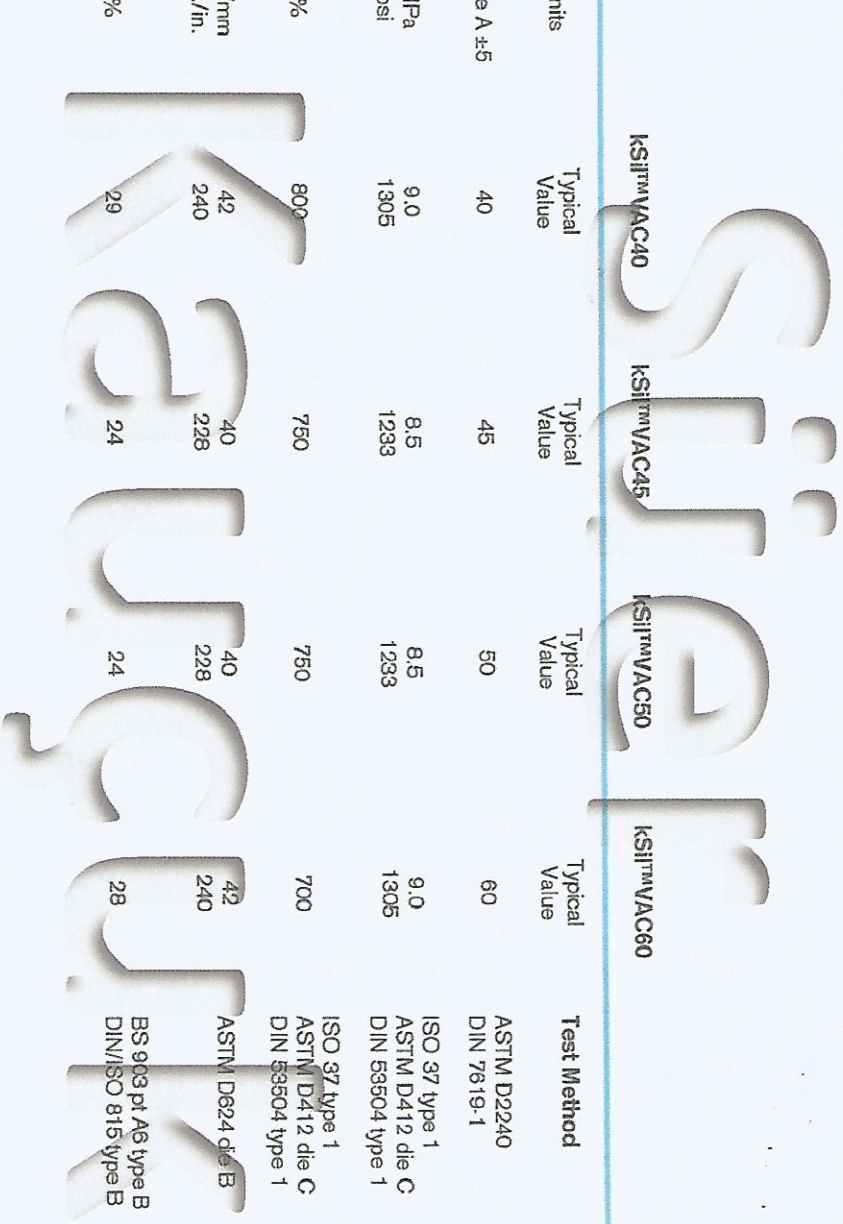
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### Sheeting

#### Mechanical Properties

Property	Units	Typical Value				Test Method
		KSil™VAC40	KSil™VAC45	KSil™VAC50	KSil™VAC60	
Hardness	Shore A ±5	40	45	50	60	ASTM D2240 DIN 7619-1
Tensile Strength	MPa psi	9.0 1305	8.5 1233	8.5 1233	9.0 1305	ISO 37 type 1 ASTM D412 die C DIN 53504 type 1
Elongation to Failure	%	800	750	750	700	ISO 37 type 1 ASTM D412 die C DIN 53504 type 1
Tear Strength	N/mm lb./in.	42 240	40 226	40 228	42 240	ASTM D624 die B
Compression Set 25% Compression 24 Hours at 150°C 30 minutes recovery	%	29	24	24	28	BS 903 pt A6 type B DIN/ISO 815 type B



#### Extra Information

In-house capabilities for extensive industry specific testing, available on request.