kSil®

Silicone Sponge Sheeting

RS750

Silicone Engineering Ltd

RS750 is a closed cell, silicone sponge supplied in continuous rolls or sheets.

Formulated for temperature and environmental resistance

RS750 is commonly used for die-cut gaskets, and flexible sealing solutions.

BENEFITS

Temperature range
-55°C to 205°C
(-67°F to 401°F)

Environmental resistance
Ozone, UV and weather resistant

Flame retardant
UL94HB

Long life service
vs other elastomers

AVAILABILTY

Rolls and Sheets

Widths up to 1m (39")

Pressure Sensitive Adhesive (PSA)

Colour: Grey

ACCREDITATIONS

UL94HB
UL94 Horizontal Burn (Not Listed)

FMVSS 302
Federal Motor Vehicle Safety Standard

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MECHANICAL PROPERTIES

Property	Typical Value*	Test Method
Density	384 (24)	ASTM D3574
Thickness, mm (in)	2.4 - 12.7 (0.094 - 0.500)	
Compression Force Deflection, kPa (psi)	41.4 - 96.5 (6 - 14)	ASTM D1056
Compression Set 22 hours @ 100°C (212°F), %	< 20	ASTM D1056
Water Absorption, %	< 3	ASTM D1056
Tensile Strength, MPa (psi)	0.62 (90)	ASTM D412
Elongation to Failure, %	135	ASTM D412
Temperature Resistance	205°C (401°F)	
Low Temperature Brittleness	-55°C (-67°F)	ASTM D746
Flammability Pass >= mm (inch)	2.4 (0.094)	FMVSS 302
Water Sealing Properties	No Leakage	Water pressure: 10.3 kPa (1.5 psi) Gasket width: 6.34 mm (0.250") Compression: 30% Gasket thickness: 3.175 mm (0.125")
Colour	Grey	Visual
Thermal Conductivity w/m K (BTU in hr/ft²/F)	0.07 (0.48)	ASTM C 518
UL Certification	UL50, UL50E, UL508 & UL157	Gaskets & Seals JMLU2

*Typical values are a representation of an average property value of a given population of a product
All imperial conversions are approximate.
Typical properties are based on 6.35mm (0.250") sample.

Tolerances, mm (in)	
2.4 - 6.35 (0.094 - 0.250)	+0.51 (+0.020)
9.53 (0.375)	No Leakage
12.7 (0.500)	+1.49 (+0.059)

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