TECHNICAL DATA SHEET

SK2RS230-1

Cured Silicon Elastomer

SK2RS230-1 is a 50 durometer, high strength silicone compound for use as a reusable vacuum blanket in forming composite aerospace articles. SK2RS230-1 possesses excellent durability, high temperature resistance and high elongation properties; the material is effective in the forming of intricate shapes. Widely used in vacuum and thermoforming presses and serving industries in the Composite sectors for parts within Aerospace. The product has a service temperature range of -60°C and up to 250°C. The mechanical properties shown below were obtained on ASTM samples.
This product is used in various manufacturing processes of parts made of composite materials.

TECHNICAL DATA	VALUE
Material type	Silicone compound
Color	Transparent
Recommended use temperature*	230°C
Maximum use temperature*	250°C
Brittle point	-80°C
Limiting oxygen index	24.0 %
Thermal conductivity	0.24 $W.m^{-1}.K^{-1}$
Radiation resistance	$>10^5$ Grays (10^7 Rads) typical
Dielectric strength	23 $kV.mm^{-1}$
Dielectric constant	2.9
Dissipation factor	$3x10^{-4}$
Volume resistivity	$3x10^{15}\Omega.cm$

MECHANICAL PROPERTIES	VALUE
Hardness	50±5 Shore A
Tensile strength	1233 psi min
Elongation to failure	750% min
Tear strength	228 ppi min
Compression set	24% max by 24 Hours at 150°C, 30 minutes recovery

Technical values are provided to the best of our knowledge and are based on data considered reliable.
Users are responsible for verifying suitability and assume all associated risks.

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STORAGE

Shelf life: 5 years
Storage conditions: it is recommended to store at temperature from -20°C until +30°C in original packing.

NOTES

Supplied in continuous roll lengths. Widths of up 1800mm. Capability to color match.
Available thicknesses: 0.76mm, 1.52mm, 2.16mm, 3.18mm
Standard width: 1220mm
MOQ is 10 sqm. MOQ has to be ordered.
* Maximum use temperature should be determined in actual process conditions. The maximum use temperature depends on the duration at maximum temperature and is process specific, we recommend testing prior to use.

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