



TECHNICAL DATA SHEET

SK2RS230-2

Uncured Silicon Elastomer

► DESCRIPTION

SK2RS230-2 is an uncured 50 durometer, high strength silicone compound for use as a reusable vacuum blanket in forming composite aerospace articles.

SK2RS230-2 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.

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General characteristics

Material type:	Silicone compound
Color	Transparent
Maximum use temperature	250°C
Recommended use temperature	230°C
Brittle point	-80°C
Limiting Oxygen Index	24.0 %
Thermal Conductivity	0.24 W.m ⁻¹ .K ⁻¹
Radiation Resistance	>105 Grays (10 ⁷ Rads) typical
Dielectric Strength	23 kV.mm ⁻¹
Dielectric Constant	2.9
Dissipation Factor	3x10 ⁻⁴
Volume Resistivity	3x10 ¹⁵ Ω.cm

Mechanical properties

Hardness	50±5 Shore A
Tensile Strength	1015 psi min
Elongation to Failure	650% min
Tear Strength	200ppi min
Compression Set recovery	35% max by 24 Hours at 150°C, 30 minutes



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► NOTE

Supplied in continuous roll lengths.
Widths of up 1800 mm.
Capability to color match.

Available thicknesses: 0.76mm, 1.52mm, 2.16mm, 3.18mm
Standard width: 1m.
MOQ is 10 sqm. MOQ has to be ordered.

Shelf life: 6 months
Storage conditions: It is recommended to store at temperature from -20°C until +4°C in original packing.