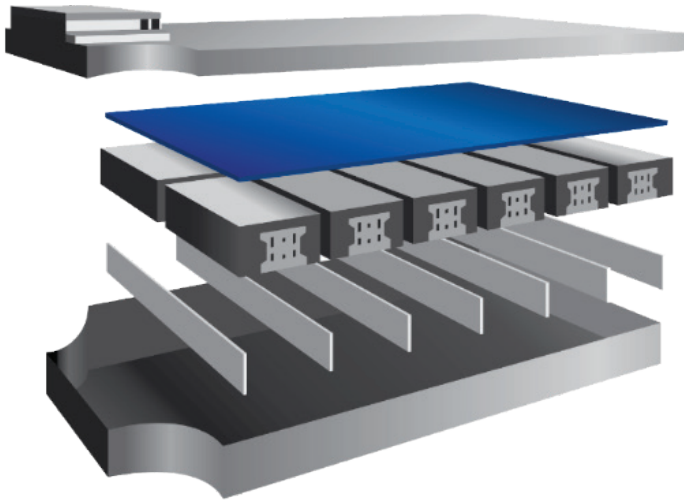


Norseal[®] TRP5300

Saint-Gobain[®] Norseal[®] TRP5300 is manufactured by Saint-Gobain Performance Plastics Corporation, Tape Solutions business, and is a flexible ceramifiable silicone rubber composite material.

This functional composite material maintains the characteristics of silicone rubber at room temperature and ceramifies to a self-supporting structure at high temperature owing to its unique composition. This ceramic structure provides for excellent fire impact and thermal insulation, with maximum resistance up to 1100°C. The self-supporting structure also helps withstand the impact of particles ejected from the batteries in the event of a thermal runaway.

IMPORTANT: This product is currently under development and changes to configuration may result. Please consult our experts if you are interested in this product for more details.



PRELIMINARY DATA SHEET

NORSEAL TRP5300 TEST DATA

Performance tests are run using standard test procedures.
The values presented are typical values and should not be used for specification purposes.

Test Item	Test Method	Value
PHYSICAL		
Density (g/cm ³)	ASTM D792	1.55±0.05
Thickness (mm)	—	0.3~0.5
Structure	—	Fabric on one side
Tensile Strength (MPa)	ASTM D412	36.2 @ 0.3mm Th 24.6 @ 0.5mm Th
Operation Temperature (°C)	—	-50 to +250
THERMAL		
Flame Torch Exposure	Internal method	No burn-through after 10 min in 1100°C flame (Product thickness = 0.5mm)
Torch and Grit Test (* based upon UL 2596)	Internal method (*)	No burn-through after 3-4 cycles (Product thickness = 0.5mm)
Thermal Conductivity (W/m·k)	ASTM C518	0.21 from RT to 465°C
ELECTRICAL		
Dielectric Breakdown Strength (kV)	ASTM D3755	19 @ 0.3mmT 29 @ 0.5mmT
Volume Resistivity (Ohm·cm)	ASTM D257	10 ¹⁴
ENVIRONMENTAL		
Regulations	RoHS 2.0, REACH	PASS

PRELIMINARY DATA SHEET

IMPORTANT INSTRUCTIONS

Because **Saint-Gobain** cannot anticipate or control every potential application, we strongly recommend testing of this product under individual application conditions prior to commercial use.

Date published: Monday, February 9, 2026

Important Notice and Disclaimer: This **Saint-Gobain** product is a developmental product that has not been commercialized for sale. The specifications are yet to be finalized. At this time we cannot guarantee the availability, design, composition, performance properties, quality, specifications, or pricing of the product, and all or some of them may be subject to change without notice when we commercialize the Product. This is preliminary data and the data discussed herein only represents best estimates for the current product construction and its accuracy or completeness is not guaranteed. Such data should not be used for specification purpose.



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