

CHR® FR1000

Mica Tape

CHR FR1000 Tape is manufactured by **Saint-Gobain®** Performance Plastics Corporation, Tape Solutions business, and comes on a mica substrate with silicone adhesive suitable for flame mitigating properties that can sustain high heat ranges as noted in this data sheet.

Features/Benefits

CHR FR1000 Tape has excellent mechanical and electrical properties as well as flame mitigating properties. It offers outstanding resistance to flame torch of temperature up to 1000°C. They also offer excellent dielectric strength, while the burning of the adhesive forms a non-conductive ash.

Availability

CHR FR1000 Tape is available in master log form 66 m × 914 mm (72 yd × 36 in) wide. Slit width rolls are available upon request. **CHR** FR1000 Tape is available with a release liner

Applications

CHR FR1000 Tape is constructed to fill the requirements of a high-performance electrical insulation under normal operating conditions. In an extreme situation of battery thermal runaway in EV battery packs, this tape can help mitigate the severity.



CHR FR1000 Properties

Performance tests are run using standard test procedures.

The values presented are typical values and should not be used for specification purposes.

Properties	Test Method	Typical Value
Backing Material	—	Mica
Adhesive Type	—	Silicone (FR)
Total Thickness mm (mil)	ASTM D1000	0.20 (7.6)
Backing Thickness mm (mil)	ASTM D1000	0.16 (6.5)
Adhesive Thickness mm (mil)	ASTM D1000	0.03 (1.3)
Adhesion to Steel N/cm (oz/in)	ASTM D1000	3.2 (30)
Dielectric Strength (AC, Volts)	ASTM D149	> 4000
Dielectric Strength (DC, Volts)	ASTM D3755	> 4000
Operating Temperature °C (°F)	—	-73 to +260 (-100 to 500)
Flame Resistance	UL94	VO or equivalent
Color	—	Lustrous Beige

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