



CHR[®] 23816

Glass-Silicone Pressure Sensitive Adhesive Tape

CHR 23816 is manufactured by **Saint-Gobain[®]** Performance Plastics Corporation, Tape Solutions business, and comes with silicone rubber/fibreglass cloth backing coated with silicone adhesive that can sustain high heat ranges as noted in this data sheet.

Features/Benefits

23816 tape is intended to withstand both the punishing abrasion of grit blasting and the extreme temperatures/pressures associated with the plasma spray process. The adhesive of 23816 is a silicone that can sustain high heat ranges as noted in this data sheet, which allows the product to withstand continuously temperatures up to 260°C and also prevents tape slippage after application. 23816 tape has excellent strength and flexibility, which allows for easy wrapping of complex shapes and minimizes wrinkling during the flexing of cables.

Availability

Factory stock for 23816 is in master rolls 33 m × 1219 mm (36 yd × 48 in). Rolls can be slit in widths ranging from 6.35 mm to 1219 mm (0.25 in to 48 in). 23816 is available with a liner.

Applications

23816 tape is used in the plasma spray process: a method of applying thin coatings of metal or high-temperature ceramics to a surface. The coating is sprayed at high pressure and at extreme temperatures. The tape is applied adjacent to areas of parts, that are to be plasma sprayed. 23816 is intended to protect these areas both from the grit blasting, which is used as a surface preparation, and from the actual plasma spray coating. The aerospace industry is the prime market for the use of plasma spray tapes, specifically jet engine manufacturers, overhaul centres, major airline maintenance centres, Air Force Bases and Naval Air Rework Facilities (NARF'S).



CHR 23816 Properties

Performance tests are run using standard test procedures.

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

| Product Number | 23816 |
|--------------------------------|----------------------------|
| Backing Material | Glass-Silicone |
| Adhesive Type | Silicone |
| Total Thickness mm (mil) | 0.305 (12.0) |
| Backing Thickness mm (mil) | 0.203 (8.0) |
| Adhesive Thickness mm (mil) | 0.102 (4.0) |
| Adhesion to Steel N/cm (oz/in) | 5.5 (50) |
| Tensile Strength N/cm (lb/in) | 175 (100) |
| Dielectric Strength (volts) | 7,000 |
| Operating Temperature °C (°F) | -73 to +260 (-100 to +500) |
| Color | White |

IMPORTANT: It is the user's responsibility to ensure the suitability and safety of Saint-Gobain products for all intended uses and that the materials to be used comply with all applicable regulatory requirements. Saint-Gobain assumes no responsibility for any product failures that occur due to your actions or inactions, including your use, design, fabrication or application of the products into which the materials are incorporated.

WARRANTY: This document should not be considered a warranty or a guarantee. The descriptions of the Product provided hereinabove may vary based on specifications requested and testing protocols. Typically, Saint-Gobain warrants that product(s) will meet mutually agreed specifications at delivery and Saint-Gobain honors any breach of warranty claims for six (6) months from delivery of the products. If a product is determined to be nonconforming with its warranty, Saint-Gobain's sole obligation is, at its option, to either replace the nonconforming products or reimburse the purchase price for the same.

The only obligation under any applicable product warranty will be to replace any portion proving defective, or at our option, to refund the purchase price thereof. SAINT-GOBAIN DISCLAIMS ALL OTHER EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR USE.

Form #1139 | © Saint-Gobain February 2025 | All the mentioned trademarks are registered trademarks of Saint-Gobain Tape Solutions or affiliates, part of Saint-Gobain group.



TAPE SOLUTIONS

North America | South America
Europe | Asia

For more information, please visit
tapesolutions.saint-gobain.com