

CHR® SG05

PTFE Coated Glass Cloth Tapes

Saint-Gobain SG05 is a premium fiberglass fabric impregnated with Polytetrafluoroethylene (PTFE) dispersion and coated with a high temperature, pressure sensitive silicone adhesive.

Features/Benefits

SG05 is a very durable and versatile product. The combination of PTFE, fiberglass and a high temperature silicone adhesive allows SG05 to perform in continuous temperatures up to 260°C (500°F). SG05 is dimensionally stable and resistant to tears, punctures, abrasion and wear. It will not “cold flow” under heavy loads.

Availability

SG05 is available in 3, 5, 6, and 10 mil thicknesses and widths from 6.35 to 991 mm (0.25 to 39 in). Standard roll length is 16 or 33 m long (18 or 36 yd). SG05 is available with or without a liner.

Applications

Saint-Gobain SG05 is frequently used by the packaging industry as a release surface on heat sealers, blister formation and form-fill-seal equipment. The durability and anti-stick properties of SG05 also make it an ideal material for the lining of guide rails, chutes and slides. The high temperature capabilities and non-stick properties of SG05 allow it to perform as an excellent release surface in the composite aircraft industry.



CHR SG05 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 | SG05-03 | SG05-05 | SG05-06 | SG05-10 |
|--------------------------------|--|--|--|--|
| Backing Material | Premium PTFE Coated Fiberglass Fabric | Premium PTFE Coated Fiberglass Fabric | Premium PTFE Coated Fiberglass Fabric | Premium PTFE Coated Fiberglass Fabric |
| Adhesive Type | Silicone | Silicone | Silicone | Silicone |
| Total Thickness mm (mil) | 0.119 (4.7) | 0.170 (6.7) | 0.196 (7.7) | 0.297 (11.7) |
| Backing Thickness mm (mil) | 0.076 (3.0) | 0.127 (5.0) | 0.152 (6.0) | 0.254 (10.0) |
| Adhesive Thickness mm (mil) | 0.043 (1.7) | 0.043 (1.7) | 0.043 (1.7) | 0.043 (1.7) |
| Adhesion to Steel N/cm (oz/in) | 4.9 (45) | 6.0 (55) | 6.0 (55) | 6.6 (60) |
| Elongation (% at break) | <5 | <5 | <5 | <5 |
| Operating Temperature °C (°F) | -73 to +260 (-100 to +500) | -73 to +260 (-100 to +500) | -73 to +260 (-100 to +500) | -73 to +260 (-100 to +500) |
| Color | Brown | Brown | Brown | Brown |

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