



# Tape Solutions for Heat Sealing



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The range of **Saint-Gobain® CHR®** PTFE Adhesive Tapes has been expanded and is now uniting **CHR** and former **Chemstik®** brand tapes under the joint **CHR** product brand to perform in a variety of heat seal packaging processes involving impulse heat sealers and hot bar sealers. **CHR** heat sealing tapes provide a non-stick, abrasion resistant surface designed for use in high temperature heat sealing applications. These highly durable tapes allow for increased process speeds and minimal down time increasing overall process efficiency. Different backings and adhesive systems are combined to offer a variety of solutions that balance cost and performance.

## Heat Sealing Tapes

**Products:** PTFE Glass Laminate Tape, PTFE Glass Cloth Tape, Zone Tape, Extruded PTFE Tape, Enhanced High Modulus PTFE Tape, Filled PTFE Tape

**Function:** Release surface for packaging plastics

**Features:** Non-stick surface, wear resistance, temperature resistance, dimensional stability, PTFE Glass Cloth for tear resistance

**PTFE Glass Laminate Tape:** **CHR Chemlam®** CLPSA 4S and CLPS 6 GXS S are premium solutions for heat seal packaging. A proprietary manufacturing method allows these products to have fewer defects such as cracks and pinholes. The more consistent release surface and higher PTFE thickness over the glass gives these products longer life and more cycles compared to lower grade options. This allows users to operate more efficiently with less down time spent changing release tapes.

**PTFE Glass Cloth Tape:** PTFE is coated onto glass fabric to enhance dimensional stability, tear strength, and abrasion resistance while maintaining a non-stick surface. Several different grades are available at various PTFE coating weights to offer economic options or high performance solutions for smoother seals and increased durability. **CHR CS205 S** is the most commonly used solution because it offers a balance between cost and performance. In addition to silicone adhesive, acrylic is available for application temperatures under 177°C where higher bond strength is desired.

**Aluminium PTFE Foil Tape:** **CHR MD15** is PTFE laminated to aluminium foil. The lamination construction gives the tape longer life in application and can be run at faster speeds due to improved thermal conductivity. The metal construction can be detected by X-ray and metal detectors on food packaging lines that detect foreign contamination.

**Zone Tape:** **CHR CF205BTZ & CF103BTZ** are made from PTFE coated glass fabric with selective adhesive placement. Adhesive can be placed only where needed to keep it away from the heating element for hot wire sealers.

**Extruded PTFE Tape:** These tapes are made of 100% extruded PTFE film backing. The additional PTFE content compared to glass reinforced products allows for extended life in narrow heat sealing applications where dimensional stability is not as critical. **CHR 2275, 2283, and 2285** are brightly colored products that can be seen clearly against the metal platen they are adhered to. **CHR 2283** is an acrylic adhesive option for lower temperature heat sealing processes (<177°C). The 2 mil thickness of these products improves heat transfer allowing for faster line speeds.

**High Modulus PTFE Tape:** **CHR R233 and R253** are made with 3 mil high modulus PTFE films. The increased PTFE backing thickness increases longevity over thinner extruded tape options. **CHR R233** has an acrylic adhesive system for higher adhesive strength while **CHR R253** is designed for use in higher temperature heat sealing processes. **CHR 22B5-2 and 22B5-2HA** are made with a 2.2 mil anti-static high modulus backing. The substrate is designed for abrasion resistance needed for heat sealing and roller wrap applications. **CHR 22B5-2** resists movement in high shear PE extrusion applications and **22B5-2HA** offers high adhesion desired in heat sealing to prevent edge curl.

**Filled PTFE Tape:** **CHR Rulon®** Tape will last the longest as a release surface in heat sealing processes compared to the rest of the **CHR** tape portfolio. It is made from a thick PTFE backing that contains special fillers designed to maximize abrasion resistance and product life. **CHR RU and RU101** can last up to 20 times as long as standard PTFE glass heat seal tapes saving both time and money from improved process efficiency.

# Heat Sealing Tapes

| Backing Material           | Substrate Grade  | Adhesive | Tape Backing Thickness |                             |                     |                     |                      |                     |                           |                     | Operating Temperature °F (°C) | Product Features                                                      |
|----------------------------|------------------|----------|------------------------|-----------------------------|---------------------|---------------------|----------------------|---------------------|---------------------------|---------------------|-------------------------------|-----------------------------------------------------------------------|
|                            |                  |          | Product Code           |                             |                     |                     |                      |                     |                           |                     |                               |                                                                       |
|                            |                  |          | 0.002 in (0.050 mm)    | 0.003 in (0.076 mm)         | 0.004 in (0.102 mm) | 0.005 in (0.127 mm) | 0.006 in (0.152 mm)  | 0.008 in (0.203 mm) | 0.010 in (0.254 mm)       | 0.014 in (0.356 mm) |                               |                                                                       |
| PTFE Glass Cloth Laminate  | Chemlam          | Silicone |                        |                             | CLPSA 4S, SGB6-4    |                     | CLPSA 6 GX S, SGC6-6 |                     | SGB6-10                   |                     | -100 to 500 (-73 to 260)      | Features Chemlam backing for maximum life                             |
| PTFE Aluminium             |                  | Silicone |                        | MD15                        |                     |                     |                      |                     |                           |                     | -100 to 500 (-73 to 260)      | Metal detectable                                                      |
| PTFE Glass Cloth           | High Performance | Silicone |                        | A2005                       |                     |                     |                      |                     |                           |                     | -100 to 500 (-73 to 260)      | High temperature adhesion                                             |
| PTFE Glass Cloth           | High Performance | Silicone |                        |                             |                     | SG16-05             |                      |                     |                           |                     | -100 to 500 (-73 to 260)      | High performance, long life & clean release adhesive                  |
| PTFE Glass Cloth           | High Performance | Silicone |                        | CS103 S, SG15-03            |                     | CS105 S, SG15-05    | CS106 S, SG15-06     |                     |                           | SG15-14             | -100 to 500 (-73 to 260)      | High performance, long life                                           |
| PTFE Glass Cloth           | Premium          | Acrylic  |                        | SG03-03                     |                     |                     |                      |                     |                           |                     | -40 to 350 (-40 to 177)       | Premium, long life & high adhesion                                    |
| PTFE Glass Cloth           | Premium          | Silicone |                        | SG05-03                     |                     | SG05-05             | SG05-06              |                     | SG05-10                   |                     | -100 to 500 (-73 to 260)      | Premium & long life                                                   |
| PTFE Glass Cloth           | Primary          | Acrylic  |                        | CS203 A                     |                     | CS205 A, SG23-05    |                      |                     | CS310 A, SG23-10          |                     | -40 to 350 (-40 to 177)       | Balanced life, cost & high adhesion                                   |
| PTFE Glass Cloth           | Primary          | Silicone |                        | SG26-03                     |                     | SG26-05             |                      |                     |                           |                     | -100 to 500 (-73 to 260)      | Balanced life, cost & clean release adhesive                          |
| PTFE Glass Cloth           | Primary          | Silicone |                        | CS203 S, SG25-03            |                     | CS205 S, SG25-05    | CS206 S, SG25-06     |                     | CS210 S, SG25-10          |                     | -100 to 500 (-73 to 260)      | Balanced life & cost                                                  |
| PTFE Glass Cloth           | Industrial       | Silicone |                        | SG35-03                     |                     | CS305 S, SG35-05    | SG35-06              |                     | CS310 S, CS410 S, SG35-10 | CS314 S             | -100 to 500 (-73 to 260)      | Economical grade                                                      |
| PTFE Glass Cloth           |                  | Acrylic  |                        | CF103BTZ, CF203BTZ, 2829-03 |                     | CF205BTZ, 2829-05   |                      |                     |                           |                     | -40 to 350 (-40 to 177)       | Zone tapes with selective adhesive placement                          |
| Extruded PTFE              |                  | Acrylic  | 2283-2                 |                             |                     |                     |                      |                     |                           |                     | -40 to 350 (-40 to 177)       | High adhesion & high heat transfer & easy to detect wear              |
| Extruded PTFE              |                  | Silicone | 2265-2, 2275-2, 2285-2 |                             |                     |                     |                      |                     |                           |                     | -100 to 500 (-73 to 260)      | High heat transfer & easy to detect wear                              |
| High Modulus               |                  | Silicone | 22B5-2                 |                             |                     |                     |                      |                     |                           |                     | -100 to 500 (-73 to 260)      | Resists movement, designed for roller wrap applications & anti-static |
| High Modulus               |                  | Silicone | 22B5-2HA               |                             |                     |                     |                      |                     |                           |                     | -100 to 500 (-73 to 260)      | High adhesion & anti-static                                           |
| Enhanced High Modulus PTFE |                  | Acrylic  |                        | R233                        |                     |                     |                      |                     |                           |                     | -40 to 350 (-40 to 177)       | High adhesion & thick PTFE layer                                      |
| Enhanced High Modulus PTFE |                  | Silicone |                        | R253                        |                     |                     |                      |                     |                           |                     | -100 to 500 (-73 to 260)      | Thick PTFE layer                                                      |
| Filled PTFE                |                  | Acrylic  |                        |                             |                     |                     |                      | RU101               |                           |                     | -40 to 350 (-40 to 177)       | High wear resistance & high adhesion                                  |
| Filled PTFE                |                  | Silicone |                        |                             |                     |                     |                      | RU                  |                           |                     | -100 to 500 (-73 to 260)      | High wear resistance                                                  |

# Your Partner in Custom Tape Solutions

A custom tape solution can pay for itself many times over thanks to the process and product improvements it can provide. Tape development engineers will work with partners to design an economical but highly effective tape product.

Even with endless permutations of industrial tapes available there is only one company that can deliver a custom-made tape with optimal adhesive, the perfect backing materials, seamless process integration and superb performance.

To learn more about how **Saint-Gobain** can help solve tape and materials engineering challenges, call us or visit us online.

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