

# CHR® Pressure Sensitive Adhesive Tapes



## CHR® G-476

### High Temperature, Non-Woven Glass Mat Splicing Tape from SGPPL

Saint-Gobain Performance Plastics is pleased to offer CHR® G-476 (and, G-476R on-liner), a non-woven glass mat Splicing Tape, for use on fiberglass based inorganic and/or laminated asphalt saturated shingles. Combining outstanding heat-cured bond strength with woven glass durability, CHR® G-476 delivers dependable performance in the high-speed, high-temperature shingle production environment. Backed by years of experience manufacturing fiberglass tapes for extreme environments, the Composites Division of Saint-Gobain Performance Plastics brings high reliability to the roofing industry with the introduction of CHR® G-476 Tape.

### CHR® Splicing Tapes — Properties

Property	G-476	G-476R (with liner)
Backing Thickness (mils)	4.8	4.8
Total Thickness (mils)	8.0	8.0
Adhesion to Steel (oz./in.)	32	55
Tensile (psi)	135	135
Adhesion to Backing (oz./in.)	6.0	25.0
Elongation (%)	5	5
Standard Length (yd.)	60	60
Color	Natural	Natural

*Use of a hot iron at over 500°F to aid adhesive flow into the glass mat and kick-over the thermosetting cycle upon application is recommended.*

## Glass Mat Splicing Tape Asphalt Shingle Tiles

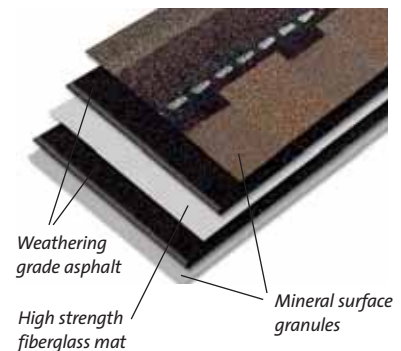
### Features/Benefits:

#### CHR® G-476

- Strong, durable, tight woven glass cloth—reliability and long in-service, on-roof life
- Light tack—sure placement, but repositionable without destroying the glass mat from overly aggressive adhesive
- No back side coating—assures tenacious asphalt grab, avoiding future on-roof failures
- Special adhesive—high temperature resistant thermosetting rubber



Machine operator using CHR G-476 in roofing production plant for substrate/carcass splicing.



Asphalt roofing shingle substrates.

## Other CHR® Tapes and Fabrics Available

### ADHESIVE SYSTEMS

**Acrylic** adhesives have exceptional solvent resistance, excellent adhesion to metal, superior weathering, excellent self life and aging characteristics.

**Natural rubber** adhesives impart high tack and shear characteristics, and can be specially blended to manufacture a broad range of adhesion performance.

**Silicone** adhesives are perfect for extreme temperature applications, and exhibit good chemical resistance, retain electrical properties, and remove cleanly with little or no residue.

**Thermoset organic rubber** adhesives set up or harden on first exposure to heat, and remain set regardless of subsequent temperature cycles. They have increased adhesion strength, improved solvent resistance and thermal capability.

### BACKING SUBSTRATES

**FEP film** is used for applications requiring optical clarity, quick release, and abrasion resistance.

**Polyester films** have excellent dimensional stability, high tensile, tear, and impact strengths, and ultimate elongation up to 120%. These films exhibit low water absorption and good resistance to oils, greases, strong acids, and organic solvents.

**Polyimide films** are flame retardant and exhibit high tensile strength and conformability, good solvent resistance, excellent dielectric strength and good abrasion resistance.

**PTFE films** provide a conformable release surface and exhibit a remarkably low coefficient of friction and non-stick properties. At high temperatures, they still retain excellent tensile strength.

**Rulon films** offer superior abrasion resistance when compared to conventional PTFE films. In rotating bearing tests, they provided a 500-fold increase in wear resistance over standard PTFE.

**UHMW polyolefin film** tape provides anti-sticking and abrasion resistance properties. Applications include bearings, chute and guide rail coverings.

**Glass cloth** offers excellent abrasion resistance, mechanical properties, high tensile strength and extreme temperature resistance. It can absorb insulating varnishes, making it an excellent choice in the electrical market.

**PTFE glass** provides dimensional stability, high tensile strength and edge tear. The PTFE surface offers quick release and chemical resistance characteristics. Available with silicone or acrylic adhesives, these products include heat sealing and low friction release surface liners for conveyors.

**Silicone glass** provides exceptional tensile strength and abrasion resistance.

**Glass-foil** is for applications requiring higher tear strengths; fiberglass laminated with aluminum is available.

**Aluminum and copper foil** tapes offer high conformability, conductivity, and reflectivity at elevated temperatures. Aluminum is available with a fiberglass laminate for applications requiring higher tear strengths.

**Paper** tapes are designed to provide high temperature and excellent solvent resistance for wave soldering, printed circuit board masking, and hot air leveling applications.

**Strip-N-Stick** tape provides all the benefits of silicone rubber in an easy-to-apply, pressure-sensitive adhesive tape. Available in closed-cell sponge, low-density foam, or solid silicone.

### RELEASE LINERS

**Fluorosilicone liners** incorporate advanced release technology for use with silicone adhesives. They are an ideal choice when die-cutting small or complex parts.

**Polyethylene liners** are very thin and conform well to tape, slit and release easily, making them a sensible choice for die-cutting.

**PVC liners** are the most general purpose, conforming well to tape and protecting the adhesive coating during handling.

**Paper liners** are the ideal choice for die- and kiss-cutting. Paper liners have the advantage of low cost and excellent release characteristics.

### CUSTOM TAPES

As a materials innovator, Saint-Gobain specializes in manufacturing unique products to satisfy customer needs. Saint-Gobain also offers custom tapes to meet application or customer specific requirements.

*CHR® is a registered trademark.*



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