

## Sewing Hard Structure Tyvek® - Type 10

- Use 3-5 stitches/inch (1.2-2 stitches/cm) at low tension to eliminate skipping.
- Use #306 (Union Special) or #14 (Singer) needle, or equivalent.
- Use a flat tipped needle that cuts slit-like perforations. “Rock Point” (Union Special) or “Narrow Wedge” (Singer) will permit top speed operation with the same thread used for round-point needles.
- The informal industry standard of 25/4 tex (24/4cc) glace thread of short staple cotton in #14 and #036 needles have given satisfactory performance in outdoor banners when coupled with 16.5/3 tex (36/6cc) soft looper thread. If smaller diameter thread is required, 14.5/4 tex (40/4cc) glace thread of “Sak” quality should provide satisfactory results.

## Sewing Soft Structure Tyvek® - Type 14, 16, Reflektra™, HL™, and RV™

- Up to 12 stitches/in. (4.7 stitches/cm) can be used: however, 6-8 stitches/in. (2.4-3.1 stitches/cm) provide the highest seam strength (greatest resistance to postage stamp tear).
- Use a fine-tooth feed dog - 12 to 21 teeth/in. (4.7-8.3 teeth/cm)
- Decrease presser-foot tension until the sheet just feeds through the machine without slipping. About 10 lb. (4.5 kg) force should be sufficient.
- Decrease bobbin tension until the bobbin just slips down the thread: 3 oz. (85g)
- Wind bobbin with thread tension set so that the thread just slips through the disc: 2 oz. (57g)
- After setting bobbin tension, adjust needle tension to produce a balanced stitch.
- Conventional threads of cotton/synthetic or 100% polyester may be used.
- Spun-filament polyester is stronger than cotton thread and is preferred for flame-resistant considerations.

## A great way to make Soft Structure Tyvek® even softer

As an alternative to washing, we recommend cutting off the amount you need, squishing it into a ball, and manipulating it with your hands. Repeat this process at least twice by reopening the piece and balling it up again - you will be amazed how soft the Tyvek® becomes.

## Washing Instructions and Flammability

Hand wash with mild soap. No bleach – or machine wash, gentle cycle, cold water. Drip dry only. Do not put in a dryer, dry clean, or use an iron on this fabric.

Rated “Class 1-Normal Flammability” by the Federal Flammable Fabrics Act for Clothing Textiles (16CFR-1610). Tyvek does not pass DOC FF 3-71, Children’s sleepwear test. Fabrics of Tyvek should not be used near heat, flame, sparks, nor in explosive environments.

**Flammability:** Clean untreated Tyvek shrinks away from the heat of an open flame without igniting. Fabrics of Tyvek should not be used near heat, flame, sparks, nor in explosive environments. It will begin to shrink at 244°F (118°C) or melt until 275°F (135°C). Its auto-ignition temperature is 650°F (343°C). The physical properties of Tyvek are not affected by water: Tyvek is equally strong wet or dry under ordinary conditions and ambient temperatures. Tyvek meets all the requirements of the USA Flammable Fabrics Act, CA-191-53, for wearing apparel. Tyvek is not intended to be used in applications where it will be walked upon.