

TEMPOTEST PROFIL®

The new sewing thread

Parà is the exclusive distributor of TEMPOTEST PROFIL® in ITALY, FRANCE, GERMANY, BENELUX, THE SCANDINAVIAN PENINSULA, SOUTH AFRICA, USA.

TEMPOTEST PROFIL® is a twisted mono-thread in 100% PTFE (polytetrafluoroethylene) suitable for all applications on fabrics for outdoor furnishing, marine* and sun protection.

*not suitable for sewing sails

PROPERTIES

- Inert to all chemical substances
- Low coefficient of friction
- Water and dirt repellent
- Completely resistant to UV rays, weather conditions and chemicals (pollution).
- Break-resistant at low and high temperatures: from <200°C to 260°C
- Extreme flexibility even at low temperature
- Better stretching value against breaking
- Not flammable (LOI=95)
- It can be used on standard sewing machines at the same conditions and speed of other similar threads
- No wax or silicone on the thread
- Chemical and physical properties are guaranteed for 15 years

		Average value	Min Value	Max value	Regulation
TITLE	Dtex	1500	1350	1650	DIN 53 830,3
BREAKING RESISTANCE	N	30	25	-	ISO 527(DIN 53455)
EXTENSION	%	25	23	27	ISO 527(DIN 53455)
FINISH (silicone wax)		NO			
TYPE OF NEEDLE	Nm	120			



SUGGESTIONS FOR THE USE OF TEMPOTEST PROFIL®

THE THREAD

The weakest part of umbrellas, canvas and awnings is always the stitch.

UV-light attacks the conventional sewing threads and reduces its tenacity over time.

Tempotest Profil® thread perfectly resists UV rays without changing its resistance characteristics over time.

Tempotest Profil® is 100% PTFE and is a thread suitable for sewing fabrics for outdoor uses that need to last a long time.

TENSION SETTINGS

The tension setting of the sewing threads should be done according to the sewing machine instructions: the upper thread should have a setting of 70 cN to 120 cN right out the moving-lever before the needle. The bottom thread normally has only 30% to 90% of the tension of the upper thread. Proper setting of thread tensions affect the look and quality of the stitches.

NEEDLE SIZE

Needle size and thread diameter must be compatible. Standard needle size for Tempotest Profil® 1500 dtex is Nm 120 (0,120 mm).

Needles have to be in very good condition: the point has to be smooth, no sharp/rough edges or worn eye and scarf area. Depending on which material has to be sewn, the needle size and/or type might need to be changed.

In case the needle size is too fine in relation to the thread diameter, the thread tension is increased due to the higher friction when the needle penetrates the material. The thread might melt away or lose its tenacity.

FABRIC THICKNESS

Very thick fabrics for technical textiles like tarpaulins, awnings, covers, etc., which are stitched together with various belts, straps or other reinforcing materials need special attention.

The thicker and/or sturdy the fabrics are, the higher the penetration force of the needle, which can lead to excessive heat build-up of the needle.

WHAT TO DO TO AVOID THE THREAD BREAKING

- Change the needle size to one or two sizes up.
- Use a needle with a “cutting” point (ex.: needle used for leather)
- Use a cooling nozzle for reducing the heat build-up at the needle (available from nearly all quality sewing machine manufacturers like Durkopp-Adler etc.)
- Use a needle which has an improved blade design and better deflection characteristics (bending resistance)
- Use “special” needles with a specially designed upper point groove (improves loop formation due to the better pick up of the needle thread) for ex. SAN 5 o SAN 6 - needles from Groz-Beckert or similar
- Reduce the speed of the sewing machine

TECHNICAL DATA

- **Count:** 1500dTex
- **Spool weight:** 500g
- **Thread per spool:** 3330m

PACKAGING

- **Support:** plastic
- **Support Colour:** blue
- **Support height:** 155mm
- **Internal diameter of the support:** 25mm
- **External diameter of the base support:** 85mm
- **Net weight:** 500g (approx. 3330 m)
- **Spool cover:** LDPE transparent 250 x 550 mm 35 µm
- **Number of spool per boxes:** 2 o 6
- **Box dimension (mm):** 320 x 210 x 170