

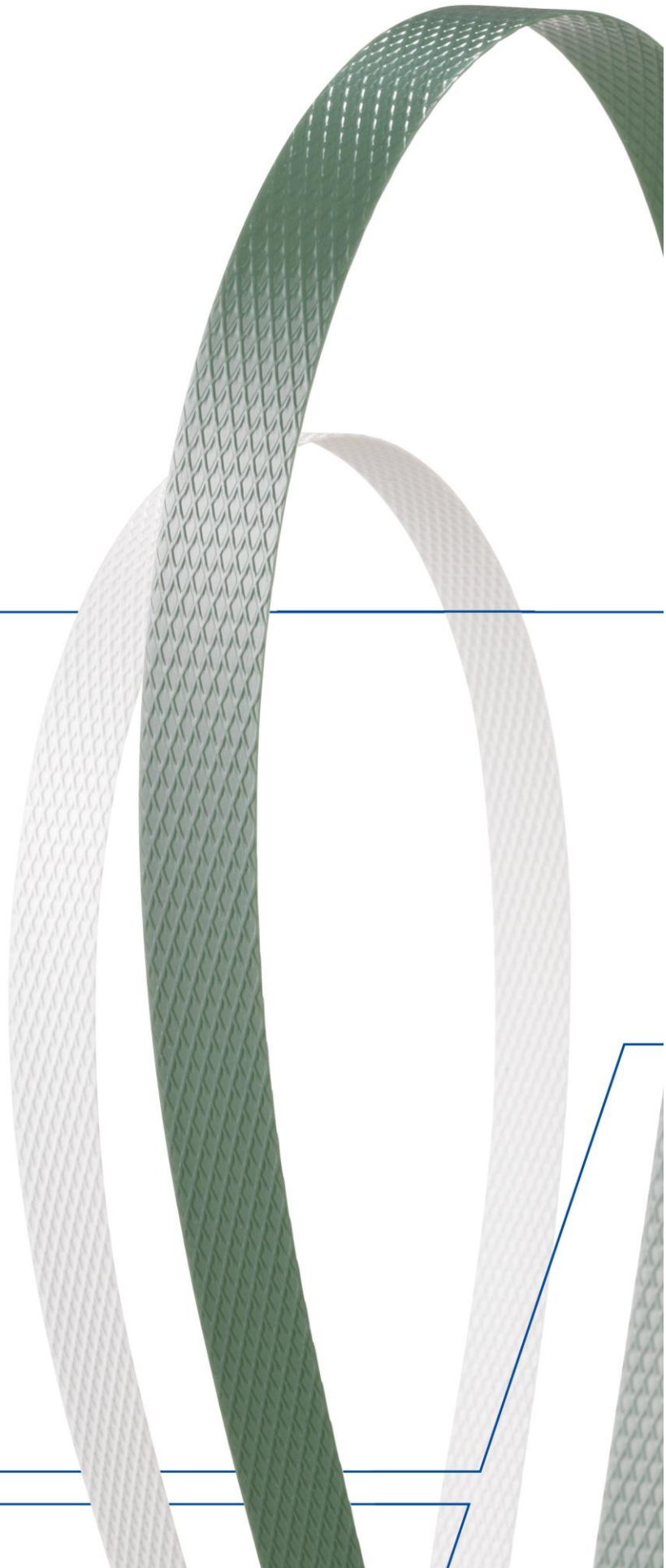
How to avoid sun shrinkage?



Teufelberger Strapping
03.07.2026

Strapping

Solutions

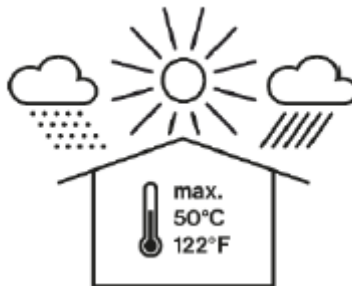


1. Understanding the term “Sun Shrinkage”.

- Sun Shrinkage refers to the physical deformation that occurs when a coil of plastic strapping is exposed to direct sunlight, especially UV radiation, for extended periods.
- The strap absorbs the solar heat, causing the material to soften and to expand slightly.
- The outer layers heat up more than the inner layers, creating thermal tension across the coil.
- The strap cools down (for example overnight) and contracts. Due to the uneven exposure, the contraction is not uniform.
- In addition to the sun shrinkage, UV rays can influence the polymers and might influence the performance of the strap.

2. Storage is key. Make sure the strapping is stored correctly

- Under the roof, no direct sunlight (max. 50°C / 122°F)
- Check the maximum storage temperatures,
- Be aware: are there any windows or open doors might influence the temperature.



3. No indoor storage possible?

- Teufelberger tested heat absorption pallet covers. They are reducing the heat and sun exposure dramatically.



HOW TO DETECT SUN SHRINKAGE OF STRAPS

1. Have a look at the coil from the side, or laying on the pallet. Is the bent towards the core? If yes, it is likely to be sun-shrinkage
2. Have a look at the coil from the front. Is the side bent towards the core? If yes, it is likely to be sun-shrinkage.
3. Usually the sun-shrinkage only applies on the outer layers of the strapping. The strap layered on the inside is usually okay.
4. Have a look at the strap inserted in the dispenser. Does the strap twist when being under pressure? If yes, it is likely to be a sun-shrinkage.
5. Alternatively you can take a picture of a straight strap under tension.
6. Have a look at the whole pallet and its storage space. Is it partly in the sun, for example due to windows or flying roof areas?

Not shown: A strap laying on the floor without any tension. Even if the strap is twisting, this is no indication for sun-shrinkage.

