

**Technical Note:****Light Stabilization:****Protection of Silane Cross-Linkable PEX tubing materials**

As with many other plastic materials some limitations must be placed on exposure of SILON PEX to light.

**Without UV Protection:**

If tubing is made with SILON catalyst masterbatch without UV protection, it may only be exposed to UV light (wavelengths <400 nm) for a short time before significant degradation occurs. Exposure to daylight or artificial light, though common, should be avoided. Both outdoor and indoor storage of raw materials or end products in intense light containing UV radiation may diminish material properties. PEX product suppliers can't take responsibility for any damage which may result from improper use or storage of PEX products by customers.

Some UV spectrum light is commonly produced by many artificial light sources. As a result the duration and intensity of exposure to artificial light should be considered when storing or using PEX products or raw materials.

**With UV Protection:**

When a product is made with SILON catalyst masterbatch with UV protection, limited exposure to UV light is acceptable. Consideration must still be given to outdoor or indoor storage, as natural and artificial light containing the UV part of the spectrum may affect the properties of the PEX tubing. If recommended processing conditions are followed, including a dosage of 5.0% catalyst masterbatch to the PEX graft resin, and no thermal damage to the stabilizer package occurs, the final PEX tubing product will be able to tolerate the equivalent of 6 months of outdoor exposure in central Arizona.

**SILON TABOREX Masterbatches with UV protection:**

TA 2125 HD (natural)	TA 2321 HD (red)	TA 2322 HD (blue)
TA 2323 HD (white)	TA 2342 HD (green)	TA 2343 HD (black)
TA 2347 HD (orange)	TA 2410 CL (red)	TA 2411 CL (blue)
TA 2412 CL (white)	TA 2420 CL (natural)	

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