Technical Note:

LIGHT STABILIZATION

Protection of Silane Cross-Linkable PEX pipe & tubing materials

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

Without UV Protection:

If pipe or tubing is made with PEX 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.

Some UV light is 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 UV protection, such as compounds made using Kafrit NA catalyst masterbatches, 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.

Kafrit NA Masterbatches with UV protection:

TA 2410 CL (red)	TA 2411 CL (blue)	TA 2412 CL (white)
TA 2417 CL (black)	TA 2418 CL (red for multi-layer)	TA 2419 CL (white for multi-layer)
TA 2420 CL (natural)		