

# UV Stability and Poly Processing Chemical Storage Tanks

In order to protect the tanks that we manufacture and sell against the potentially harmful effects of ultraviolet (UV) radiation in sunlight, PolyProcessing incorporates a light stabilizer known as a “UV absorber” into the crosslinkable polyethylene (XLPE) used in molding those tanks. This stabilizer has a greater affinity to absorb UV light than XLPE and as such tends to shield the plastic from UV radiation by absorbing it before the plastic can. The stabilizer then dissipates the UV energy as low energy heat and fluorescent light into the surrounding atmosphere. Because this is a physical, rather than a chemical process, the UV stabilizer is not altered chemically and remains present throughout the lifetime of the tank.

In “real world” terms, since 2008 PolyProcessing has sold more than 5800 tanks into the states of Florida and Louisiana where they are exposed to UV radiation from high intensity sunlight on a daily basis. Currently, less than 1% of those tanks have been removed from service and replaced. An investigation of the causes for removal from service revealed no cases in which removal resulted from the effects of exposure to UV radiation from sunlight.

**CALIFORNIA**  
8055 S. Ash St.  
French Camp, CA 95231

**LOUISIANA**  
P.O. Box 4150  
2201 Old Sterlington Rd.  
Monroe, LA 71203  
Tel: 866.590.6845  
[sales@polyprocessing.com](mailto:sales@polyprocessing.com)  
[www.polyprocessing.com](http://www.polyprocessing.com)

**VIRGINIA**  
161 McGhee Rd.  
Winchester, VA 22603