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UVI Statement	January 1 st , 2024 – Dec 31 st , 2024
Dates Covered:	
Authorized Company Representative:	Brad Blankenship, Technical Manager, Sigma Stretch Film

Ultraviolet light, oxygen, and heat all will degrade polyolefins and cause brittleness, color change, and product failure. However, there are additives called UVI (ultraviolet inhibitors) that trap the free radicals which form during the photo-oxidation process thus retarding the breakdown of the polyolefin. Sigma Stretch Film does use UVI in certain films to extend the outdoor life of the product. The product code on this special item is MBI.

The number of wraps, film thickness, humidity, sun intensity, prestretch level, chemical exposure, pollution, and storage conditions are just a few of the many variables that will affect the life of UV inhibited plastic wrap. Sigma Stretch Film cannot control these variables and therefore cannot guarantee the useful life of this film. However, the UV products have been engineered using an instrument that attempts to duplicate nature and accelerate the weathering process. By doing this, a correlation is drawn between film life and exposure to UV light. The industry standard is presently a retained elongation of 50% after 1600 hours in the accelerated weathering tester. UV inhibited films from Sigma Stretch Film contain appropriate types and levels of UVI concentrate to conform to this standard. As a reference, 2000 hours is generally accepted as one year in the Southern Florida sun. It should also be noted that the test is performed with unstretched 80 gauge film under laboratory conditions and will vary depending on the variables mentioned earlier. Sigma Stretch Film recommends and requires a minimum thickness of 80 gauge and a maximum stretch level of 150% for optimum protection.

Brad Blankenship
Technical Manager
Sigma Stretch Film