



STABILIZETM Rx

Stabilizers to Reduce Degradation and Extend Product Shelf Life

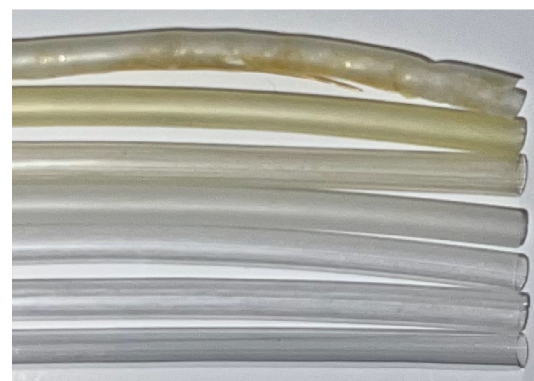
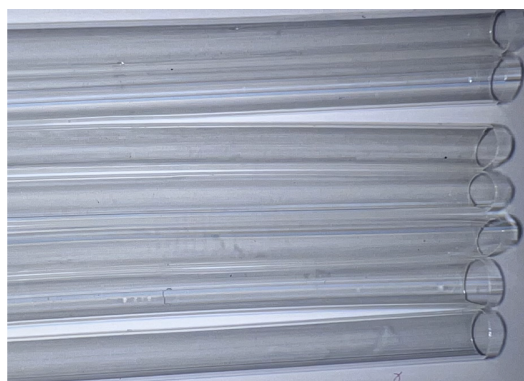
Polymer degradation is a common root cause of medical device failure. Through processing, oxidation inevitably occurs and continues throughout the lifetime of a device - even if it is stored properly. It is imperative for medical device manufacturers to ensure oxidation has not compromised the integrity of plastics over their recommended shelf life. To ensure product integrity, we created StabilizeTM Rx. Protect polymers during extrusion, injection molding, reflow, annealing, sterilization, and storage with StabilizeTM Rx.

Reduces Oxidative Degradation
Extends Product Shelf Life
Minimizes Effects of UV Exposure
Reduces Potential Product Failure
Biocompatible per ISO 10993-5

0 Days

UV Aged 98 Days

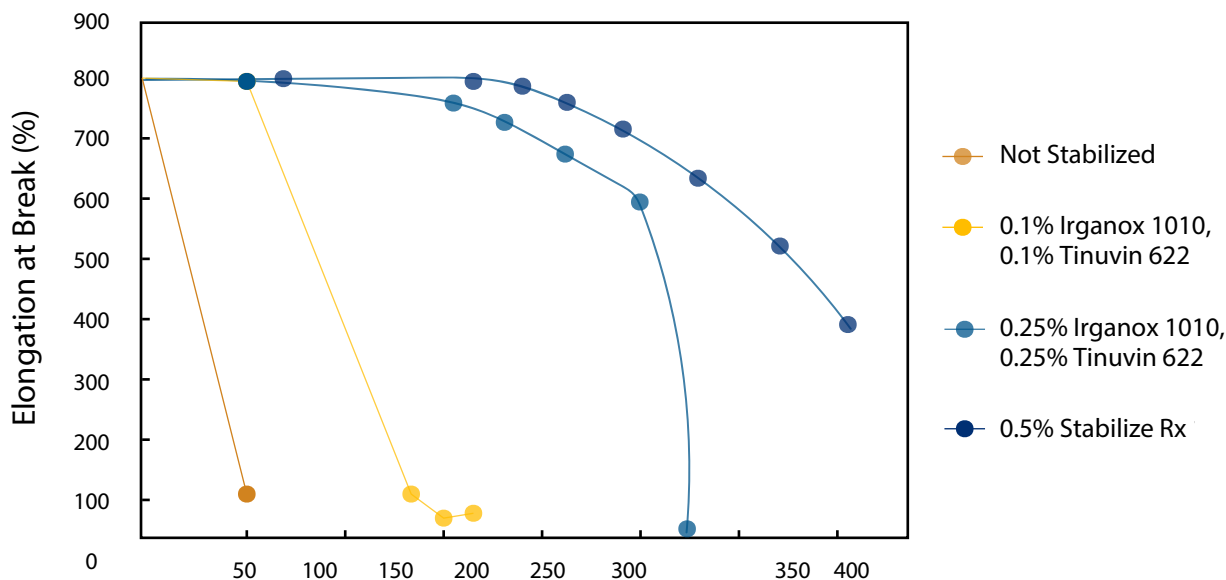
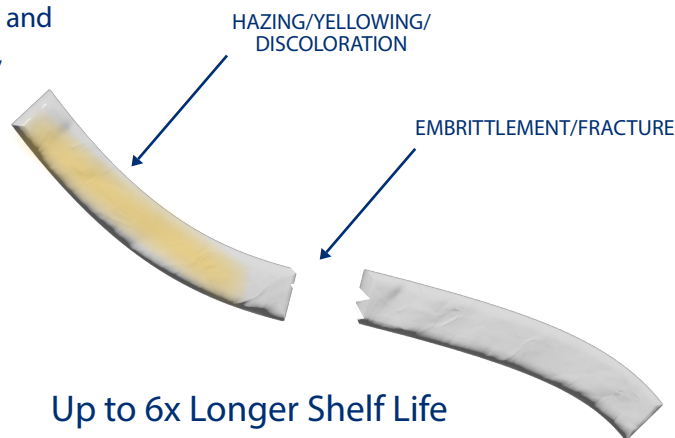
Control, Processed
Control, UnProcessed
Stabilizer pkg 1
Stabilizer pkg 2
Stabilizer pkg 3
Stabilize RX



Aging Study of PEBA 55D

How Stabilize Rx Works

Stabilize Rx can be utilized as a concentrate within a PEBA or TPU carrier or compounded directly within your resin of choice. The predominant degradation mechanisms under these aging conditions are photooxidation and thermal oxidation. Using optimized stabilization packages such as Stabilize Rx 101 delays the effects of oxidative degradation and helps to extend shelf life, but polymers eventually become brittle and discolored as free radicals cleave chains, induce crosslinking, and produce chromophores.



Tensile elongation at break of Medical Grade Shore 55D Pebax with various stabilization Packages aged under UV lamp at 23°C.



Compounding Solutions is a global leader in custom engineered thermoplastic compounds, color concentrates and additive masterbatches for medical applications. We produce compounds of the highest quality and consistency in our controlled production area and offer complimentary technical expertise, full regulatory support, and MOQs of just 1kg in an optimized process built for speed.

