



## ➤ PRODUCT BULLETIN

# Cesa™ Fiber Additives

## Light Stabilizers for Synthetic Fibers and Nonwovens

Non UV-stabilized fibers exposed to sunlight can suffer color fading and molecular changes that degrade their chemical and mechanical properties, leading to fraying and breakages. In technical applications, where strength can be a critical factor, fibers should be UV-stabilized to avoid product failure.

The Cesa™ Fiber Additives portfolio includes light-stabilizing and UV-absorbing concentrates for the spin-dyeing process. Unlike topical finishing treatments, which involve the addition of chemicals in a post-treatment water bath, the additive concentrates are incorporated into the polymer during spinning. The process requires no water and offers long lasting protection from degradation due to sunlight exposure.

### APPLICATIONS

Avient's light stabilizers are suitable for PP, PET and PA fibers used in a wide range of applications including carpeting, upholstery, automotive textiles, artificial turf, awnings, marquees, blinds, sunshades, covers, tents, sun loungers and garden furniture. Additional solutions can be offered on request for other synthetic fibers such as PLA or TPU.

### CHEMISTRY

Avient offers different types of light stabilizers for fiber applications: absorbers, quenchers and HALS (Hindered Amine Light Stabilizers). They can be used either alone or in combination. Our experts provide recommendations on the most appropriate solution for the end product and relevant standards.

### KEY BENEFITS

Avient's UV stabilizers for fibers provide the following benefits:

- High active ingredient loading options available
- Little or no effect on processing speeds so plant productivity can be maintained at the highest levels
- Resistance to interaction with fertilizers, pesticides and bleaching agents in the manufacturing and end-use environment
- Can be combined with colors and with other additives (e.g., flame retardants) into a single combination concentrate for convenience
- Product guidance and technical assistance from our experts

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