



## ➤ PRODUCT BULLETIN

# Flame Retardants for Synthetic Fibers and Nonwovens

Ignitability and flame spread, with or without an additional radiant heat source, are a particular concern for fibers used in indoor applications, or indeed anywhere where human lives could be endangered. Avient's flame retardants are incorporated into the polymer resin during spin dyeing, making fibers more resistant to ignition and controlling flame propagation, smoke and heat generation. The additives offer long-term flame retardancy at low dosage and help fiber manufacturers meet key regulatory requirements by EN, DIN, UNI and others around the world.

## APPLICATIONS

Avient's flame retardants are recommended for spun-dyed PP, PET and PA fibers used in applications such as automotive textiles, home and office furnishings, clothing, and carpeting.

## CHEMISTRY

Avient's non-halogen flame retardant systems can be applied to decrease the flammability of polypropylene, while nitrogen and phosphorous based chemistries are used to impart flame retardant properties to polyester and polyamide PA 6 and PA 6.6.

## KEY BENEFITS

Avient's flame retardancy concentrates provide the following benefits:

- Very good compatibility and dispersibility
- Durable fire resistance with limited to no impact on color
- Fire resistance and spinnability tested for efficacy in our labs
- Can be combined with colors and with other additives (e.g. light stabilizers) into a single product for convenience

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