



inhibit[®]
Flame Retardant Polyester Yarns by Unifi



PROTECTION

Inhibit[®] flame retardant technology contains a special phosphorus compound that promotes quick formation of char, reducing the flammable gases emitted and the propensity to burn.



inhibit[®]

FLAME RETARDANT



POTENTIAL BENEFITS:

- Utilizes proven phosphorous FR chemistry
- Phosphorus-based, non-halogenated chemical
- Superior performance and durability versus topically treated fabrics
- Competitive solution compared to other flame retardant polyester products
- Properties beyond FR can be engineered into the fiber allowing for more value added applications

AVAILABLE:

- Extensive product offering, including **Inhibit**[®], **Inhibit Max**, **REPREVE**[®] FR, **Repreve FR Max**
- Available in POY, Flat, and DTY polyester filament yarns
- Available globally for polyester filament
- Inhibit** and **Inhibit Max** are produced in US and **REPREVE**[®] FR in US and China.

HOW **inhibit**[®] WORKS:



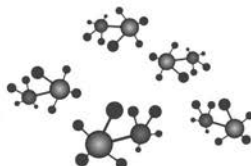
SOLID MATERIAL

... such as a polymer consisting of long-scale molecules are heated



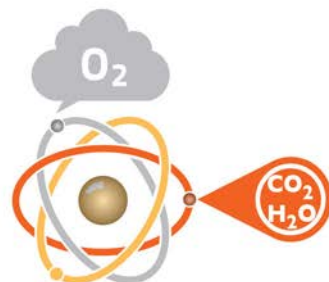
HEAT

... causes temperatures to rise to polymer decomposition point



FLAMMABLE GASES

... released as reaction breaks down polymer into short-chain and smaller molecules



RELEASED GASES

... mix with oxygen in air encouraging further reaction, combustion, and decomposition until material consumes itself

END USES:



Automotive



Bedding



Furnishings



Military



Outdoors

- NFPA 701-2004
- BFD 9-1
- IMO A.688 (17)5.5.1&2
- IMO A.652 (16)8.2&3
- FMVSS 302
- ATSM E84
- Cal 117E CFR 1610

Fabric construction, finishing, and processing have a significant impact on the final product ability to pass test. Fabrics made with **Inhibit**[®] yarns have been shown to pass a wide range of flammability tests.

DISCLAIMER: All fibers sold as **Inhibit** flame resistant or retardant (FR) are warranted only to contain no less than 2000 parts per million Phosphorous. Unifi makes no performance claims of flame retardancy or flame resistance based upon any standard, whether governmental, industry or otherwise. Unifi specifically disclaims any such performance claims. All purchasers of **Inhibit** yarns must sign the Unifi Disclaimer and Acknowledgement form before purchasing any **Inhibit** yarns.

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