

*Low Load-Level, Non- Halogenated*

# FlexB™ 100 Flame Retardant Additive

The FlexB™ 100 performance additive is a highly engineered boron compound designed to drastically reduce flame propagation in plastics and coatings. Unlike all traditional FR additives, FlexB™ 100 binds into the backbone of the polymer, allowing for lower load levels and increased performance.

## Applications:

Flex B™ 100, is specifically designed for high performance in nylon, epoxies and water based coatings.

## Performance:

FlexB™ 100 has achieved v-0 rating in nylon at very low load levels (3%). Performance in water-based coatings and epoxy is achieved at 3-8% loading levels.

## Product Specification:

- boron based, non-halogenated
- viscous, clear liquid
- water & solvent soluble w/ pH 4.5
- water content: ~ 5%
- recommend load level: 3-10% on total weight

## Handling:

Avoid exposure to air/moisture before formulation. Heat sample to 70C to increase flow if needed.

## MCP Technology™:

FlexB™ 100 is manufactured through MCP Technology™, a patent-pending chemical manufacturing process that enables a level of chemical flexibility for inorganic chemicals, allowing innovative and powerful chemical solutions to the materials industry.

FlexB™ 100 is a trademark of Applied NanoWorks Inc. for its innovative series of chemical materials.

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10 Hermes Rd  
Malta NY 12020  
P: 518.899-9600  
F - (518)-899-9605

www.auterrainc.com  
sales@auterrainc.com