

*Low Load-Level, Non- Halogenated*

# FlexB™ 110 Flame Retardant Additive

The FlexB™ 110 performance additive is a highly engineered boron compound designed to drastically reduce flame propagation in plastics and coatings. Unlike traditional FR additives, FlexB™ 110 has the ability to be polymerized into the backbone of polymers. FlexB™ 110 also works very effectively simply as an additive into many plastics and coatings, requiring low loading levels and allowing the polymer to maintain performance characteristics.

## Applications:

Flex B™ 110, is specifically designed for high performance in nylon, epoxies and water based coatings.

## Performance:

FlexB™ 110 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: 0.1%**
- **Recommended load level: varies - 3-10% on total weight**
- **Three hydroxyl groups per molecule of FlexB 110**

## Handling:

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

## MCP Technology™:

FlexB™ 110 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™ 110 is a trademark of Applied NanoWorks Inc. for its innovative series of chemical materials.

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