

# Milliken® Milliguard™ AOX

Antioxidant for Polyurethane

## Milliguard AOX Antioxidant for Polyols

AOX is a reactive, polymeric carbon-centered radical scavenger that protects thermoset polymers from oxidation degradation.

It is effective at low levels in polyurethane and in formulations containing Natural Oil Polyols, where exposure to high temperatures during processing causes degradation and discoloration.

Unlike most stabilizers, this antioxidant reacts into urethane systems resulting in significantly lower volatility, migration, bloom and plate-out.

In addition, most hindered phenols and hindered amines cause yellowing when the urethane is exposed to nitrous oxide gas. Milliguard does not contribute to color formation due to NOX gases.

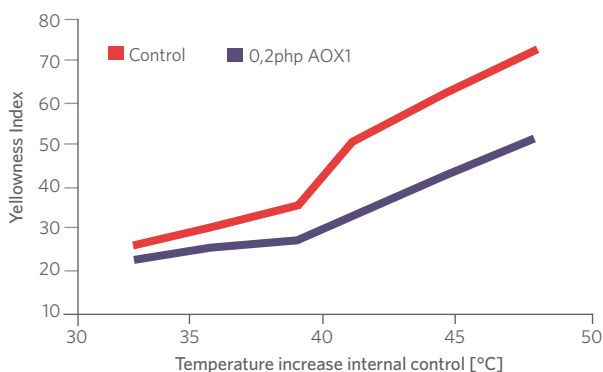
## Potential Performance Benefits

- Enabling higher quality foam through reduced discoloration
- Reducing scorch related scrap / off-quality
- Potential costs savings by enabling the use of cost effective flame retardants with reduced scorch
- Enabling the use of non-halogenated flame retardants by reducing scorch
- Increased productivity by increasing foam block size without scorch
- Increased quality of foams containing Natural Oil Polyols

## Potential Applications

- Furniture & bedding with flame retardants to meet CA 117 requirements
- Automotive flame laminated grades
- Stay white foam / intimate apparel
- Seasonal foam scorch issues / low density foam

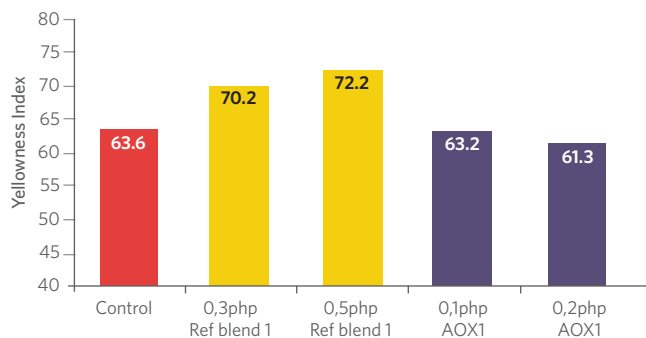
### Microwave Scorch Testing



A foam produced under the same conditions using a prepolymer containing 50% of NOP and Flame retardant.

### Colorfastness to Burnt Gas Fumes

AATCC Test Method 23; 30 hrs, 58 °C, Propane



For more information, please contact your Milliken Representative.

**PLEASE NOTE:** As each customer's use of our product may be different, information we provide, including without limitation, recommendations, test results, samples, care/labeling/processing instructions or marketing advice, is provided in good faith but without warranty and without accepting any responsibility/liability. Each customer must test and be responsible for its own specific use, further processing, labeling, marketing, etc. All sales are exclusively subject to our standard terms of sale posted at [www.milliken.com/terms](http://www.milliken.com/terms) (all additional/different terms are rejected) unless explicitly agreed otherwise in a signed writing.

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