



PA

Business Unit or Division Polymer Additives
One Great Lakes Boulevard, P.O. Box 2200, West Lafayette, IN 47996-2200

Document Type **Technical Information**

Product Name **Great Lakes Firemaster[®] BZ-54**

Halogenated Flame Retardant

Great Lakes Firemaster BZ-54, structure proprietary, is a low viscosity liquid flame retardant that can be used in a wide variety of applications, in particular where low fogging is critical.

Tetrabromophthalic Anhydride Derivative
CAS Reg. Number Proprietary

Typical Properties

Appearance	Clear Amber Liquid
Bromine Content, %	54
Specific Gravity @ 25 °C, g/ml	1.7

Viscosity

Temperature, °C	10	21	32	43
Viscosity, cps	2,000	1,140	284	128

Structure Proprietary

Thermogravimetric Analysis (10 mg @ 10 °C/minute under N₂)

Weight Loss, %	5	10	50	95
Temperature, °C	211	226	268	291

Solubility (g/ 100 g Solvent)

Water	< 0.1	Toluene	Complete
Methylene Chloride	Complete	Methyl Ethyl Ketone	Complete
Methanol	5.7		

Great Lakes Firemaster BZ-54 is a low viscosity liquid flame retardant for flexible polyurethane foam offering numerous advantages:

- Low volatility in automotive fogging tests
- Does not contribute to California 117 smoldering
- Helps promote low IFD spread in HR foam
- Outstanding resistance to foam discoloration during production
- Superior hydrolytic stability
- Improves adhesion in flame lamination
- Not based upon diphenyl oxide

The use of proper protective equipment is recommended. Excess exposure to the product should be avoided. Wash thoroughly after handling. Store the product in a cool, dry, well-ventilated area away from incompatible materials. Unless stated, proper storage will permit usage of the product for 6 to 12 months from the date of receipt. For additional handling and toxicological information, consult the GLCC Material Safety Data Sheet.