



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 PE-68™**

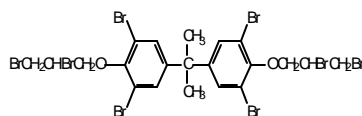
Halogenated Flame Retardant

Great Lakes PE-68 is a unique flame retardant containing both aromatic and aliphatic bromine. **Great Lakes PE-68** has excellent thermal stability and melts during processing for uniform dispersion.

Tetrabromobisphenol A bis (2,3-dibromopropyl ether)
CAS Reg. Number [21850-44-2]

Typical Properties

Appearance	Off-White Powder
Bromine Content, %	68
Melting Range, °C	106 – 120
Specific Gravity @ 25 °C, g/ml	2.2
Bulk Loose Density @ 25 °C, g/ml	0.76
Bulk Packed Density @ 25 °C, g/ml	1.10



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

Weight Loss, %	5	10	50
Temperature, °C	305	312	328

Solubility (g/ 100 g Solvent)

Water	< 0.1	Toluene	24
Methylene Chloride	50	Methyl Ethyl Ketone	7
Methanol	< 0.1	Styrene	10

Great Lakes PE-68 is recommended as an additive flame retardant for polyolefin resins. **Great Lakes PE-68** is extremely effective for use in UL-94 V-0 and V-2 formulations. Generally, low additive levels are required and the resulting polymer systems display superior physical properties and very low specific gravity.

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.