



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 BC-52™

Halogenated Flame Retardant

Great Lakes BC-52 is a brominated, aromatic flame retardant for thermoplastic resin systems. Great Lakes BC-52, a white powder, offers excellent thermal stability, UV stability and color in the final part.

Phenoxy-terminated carbonate oligomer of Tetrabromobisphenol A
CAS Reg. Number [94334-64-2]

Typical Properties

Appearance	White Powder
Bromine Content, %	52
Melting Range, °C	180 – 210
Specific Gravity @ 25 °C, g/ml	2.2
Bulk Loose Density @ 25 °C, g/ml	0.61
Bulk Packed Density @ 25 °C, g/ml	1.00

Structure Proprietary

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

Weight Loss, %	5	10	50
Temperature, °C	408	438	480

Solubility (g/ 100 g Solvent)

Water	< 0.1	Toluene	14
Methylene Chloride	Complete	Methyl Ethyl Ketone	Complete
Methanol	< 0.1		

Great Lakes BC-52's unique combination of properties makes it a suitable flame retardant in PBT, PET, PET/PBT blends, PC, ABS, ABS/PC blends, Polysulfone, and SAN. The UV stability of Great Lakes BC-52 allows it to be formulated for applications subjected to indoor fluorescent and casual outdoor sunlight exposure. Great Lakes BC-52's high purity allows its use applications requiring excellent electrical and thermal properties.

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.