



PA

Business Unit or Division

Polymer Additives
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Document Type

Technical Information

Product Name

Great Lakes BC-58™

Halogenated Flame Retardant

Great Lakes BC-58 is a brominated, aromatic flame retardant for thermoplastic resin systems. **Great Lakes BC-58**, a white powder, offers excellent thermal stability, good UV stability and color in the final part.

Phenoxy-terminated carbonate oligomer of Tetrabromobisphenol A
CAS Reg. Number [71342-77-3]

Typical Properties

Appearance	White Powder
Bromine Content, %	58
Melting Range, °C	200 – 230
Specific Gravity @ 25 °C, g/ml	2.2
Bulk Loose Density @ 25 °C, g/ml	0.66
Bulk Packed Density @ 25 °C, g/ml	1.02

Structure Proprietary

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

Weight Loss, %	5	10	50
Temperature, °C	380	423	475

Solubility (g/ 100 g Solvent)

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

Great Lakes BC-58's unique combination of properties makes it a suitable flame retardant in PBT, PET, PBT/PET blends, PC, ABS, ABS/PC blends, Polysulfone and SAN. The UV stability of **Great Lakes BC-58** allows it to be formulated for applications subjected to indoor fluorescent and casual outdoor sunlight exposure. In addition, **Great Lakes BC-58's** high purity makes it a solid choice for 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.