



MORGAN MATERIALS

INCORPORATED

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Technical Data Sheet

TBBPA---Tetrabromobisphenol A

Typical Properties:

Appearance:	Off white crystalline powder
Melting poing:	175-184 *C,
Vapor pressure:	< 1 mm Hg at 20*C
Relative density:	2.18 g/cm ³
Solubility:	4.16 mg/l at 25*C in water

Tetrabromobisphenol A (TBBPA) is used as a reactive flame retardant in epoxy, vinyl esters and polycarbonate resins. The main application of TBBPA in epoxy resins is in PCB (printed circuit boards) where the bromine content may be 20% by weight. It is used also as a flame retardant in polymers such as ABS, polystyrenes, phenolic resins, adhesives, paper, and textiles and others. TBBPA can be combined with a synergist such as antimony trioxide for maximum flame retardant performance. TBBPA may also be used as a parent compound for the production of other commercial flame retardants, such as tetrabromobisphenol A bis(2-hydroxyethyl ether), tetrabromobisphenol A dibromopropylether, tetrabromobisphenol A bis(allylether), tetrabromobisphenol A carbonate oligomers, and tetrabromobisphenol A brominated epoxy oligomer.

TBBPA is the largest volume brominated flame retardant (BFR) in production today to improve fire safety of mainly electrical and electronic equipment. The main application of TBBPA is as a reactive flame retardant in laminates (e.g. epoxy resins) for an estimated 90+% of printed wiring boards. TBBPA is also used as an additive flame retardant in ABS plastics. TBBPA is chemically bound in these applications and has no potential for emissions to the environment. Among all the different flame retardants that can be used in printed wiring boards, TBBPA is the most well researched flame retardant.