

Flame retardant for polymer

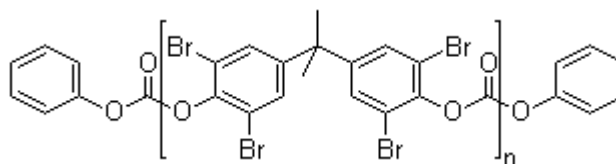
Flame retardant

1. General

TY CHEM TY113 BC-52 is a brominated, aromatic flame retardant for thermoplastic resin systems. BC-52, a white powder, offers excellent thermal stability, UV stability and color in the final part. BC-52 is a suitable flame retardant in PBT, PET, PET/PBT blends, PC, ABS, ABS/PC blends, Polysulfone, and SAN. The UV stability of BC-52 allows it to be formulated for applications subjected to indoor fluorescent and casual outdoor sunlight exposure. BC-52's high purity allows its use applications requiring excellent electrical and thermal properties.

2. Properties

Structure



| | | |
|-------------------|---|---|
| CAS name | : | TBBPA carbonate oligomer BC52 |
| CAS no. | : | 94334-64-2 |
| Molecular formula | : | (C ₇ H ₅ O ₂).(C ₁₆ H ₁₀ Br ₄ O ₃) _n .(C ₆ H ₅ O) |
| Molecular weight | : | |

3. Physical Data

| | | |
|------------------|---|--------------|
| Appearance | : | White powder |
| Odor | : | Odorless |
| Boiling point | : | N/A |
| Melting range | : | 190-220°C |
| Weight Loss (1%) | : | ≥370°C |

4. Solubility

(g in 100 ml solvent @25°C)

| | | |
|---------------------|---|-------|
| Methanol | : | <0.01 |
| Water | : | <0.01 |
| Methylene chloride | : | <0.01 |
| Toluene | : | <0.01 |
| DMF | : | <0.01 |
| Methyl ethyl ketone | : | <0.01 |

5. Specification

| | | |
|-----------------|---|--------------|
| Appearance | : | White powder |
| Melting point | : | 190-220°C |
| Bromine content | : | 52% min. |
| Volatility | : | 0.2% max. |