

# Flame retardant Plamtar-TBC

**Chemical name:** 1,3,5-tris(2,3-dibromopropyl)-isocyanurate

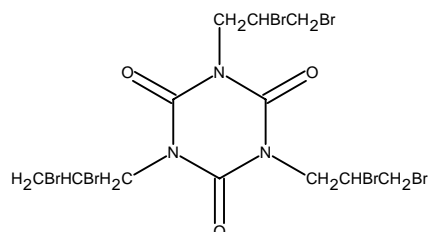
**Equivalent:** TAICROS 6B (Evonik, Degussa)/ ARMOQUELL FR930 (Akzo Nobel)

**Molecular formula:** C<sub>12</sub>H<sub>15</sub>Br<sub>6</sub>N<sub>3</sub>O<sub>3</sub>

**Molecular weight:** 729

**CAS No.:** 52434-90-9

**Structural formula:**



## PHYSICAL PROPERTIES

Appearance: White to off-white powders

Melting point: 105 ~ 115 °C

Solubility (g/100g solvent), @20 °C

*Water: Insoluble*

*Benzene: Soluble*

Bulk packed density (g/cm<sup>3</sup>), @25 °C:0.725

*Toluene: Soluble*

*Acetone: Soluble*

## SPECIFICATIONS

Appearance: White to off-white powders

Melting point: 109 °C min

Bromine content: 65.0% min

Free bromine: 25 ppm max

Acid value (mg KOH/g): 0.2 max

Decomposition temperature: 230 °C min

Volatiles:0.2% max

pH value: 6.5 ~ 7.5

## APPLICATIONS

Plamtar-TBC is a kind of new-type, high efficient, additive type bromine series flame retardant. It has good retardant effects, with low volatility, good compatibility, durability, light-fastness, water resistant, nontoxic, etc. It can be widely used in polyolefin, PVC, foam polyurethane, plastics—polypropylene, ABS, unsaturated polyester, synthetic rubber, synthetic fibre, etc.

## PACKING

25kg/bag