

# Flame retardant Plamtar-DOPO

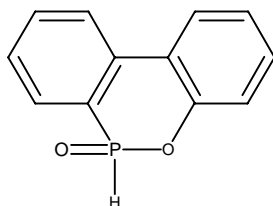
**Chemical name:** 9,10-Dihydro-9-oxa-10-phosphaphenanthrene-10-oxide

**Molecular formula:** C<sub>12</sub>H<sub>9</sub>O<sub>2</sub>P

**Molecular weight:** 216

**CAS No.:** 35948-25-5

**Structural formula:**



## PHYSICAL PROPERTIES

Appearance: White powders

Melting point: 114 ~ 120 °C

Solubility (g/100g solvent), @20 °C

*Water: Insoluble*

*Tetrahydro furan: Soluble*

Specific gravity (g/cm<sup>3</sup>), @25 °C:1.38

*Xylene: Soluble*

*Chloride benzene: Soluble*

## SPECIFICATIONS

Appearance: White crystal or powders or granules Cl: 30 ppm max

Assay: 99.0 % min Zn: 5 ppm max

Melting point: 116 ~ 120 °C Na: 30 ppm max

P: 14.0% min

## APPLICATIONS

Plamtar-DOPO is reactive with olefins, ketones, epoxies, etc; it is able to be used as a reactive flame retarder or the raw material of flame retarder for various resins. And these products are so environmentally friendly that it can be used as a substitute for halogenated flame retarder or raw material for the halogen free flame retarder. It is mainly used for flame retardant epoxy resin for PCB, Color protector for plastics, Fire Retardant Polyester Fiber Fabrics, and so on.

## PACKING

25kg/bag