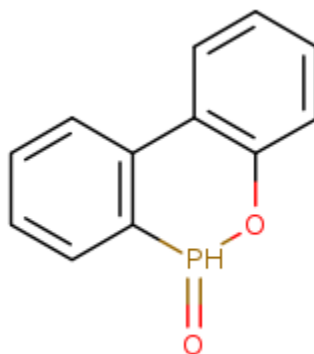


Technical Data Sheet

Product name:	DOPO
Product Form:	Solid
Chemical name:	9,10-Dihydro-9-oxa-10-phosphaphenanthrene-10-oxide
Synonym:	6H-Dibenz(c,E)(1,2)oxaphosphorin 6-oxide
CAS No:	35948-25-5
EINECS No:	252-813-7
Molecular formula:	C ₁₂ H ₉ O ₂ P
Molecular weight:	216.17
Structure formula:	



Chemical Specification

Appearance	White flakes
Decompose temperature (°C)	305
Phosphorus (%)	14 min.
DOPO (%)	99.50 min.
OPP (ppm)	1000 max.
Color (APHA)	100 max.
Acid value (mg KOH/g)	300 max.
Melting point (°C)	116 – 121
Water absorption rate (%)	0.3 max.

Packing: in 25kgs net bags on pallet

Description

DOPO is a kind of reactive, halogen free flame retardant additive with excellent heat stability and oxidation resistance. As phosphorous organic its performance are chemically linked to resin matrix and is better than other phosphate esters in flame retarding due to the P-C bond.

Tests show that EVERFOS DOPO has a less smoke density besides no corrosive gases for molders or extruders, is also suitable for high TG applications for resin and thermoplasts.

Applications

DOPO is a phosphorous organic flame retardant which can be mainly used for ABS, flexible Polyurethane, Epoxy Resin, Unsaturated Polyester resin, Phenolic resin, Coating – Paint, Textile – Back coating. It's a Halogen-free reactive and additive product used in Epoxy resins for PCB and semiconductor encapsulation, Anti-yellowing agent of compound process for ABS, PS, PP, Epoxy resin and others Plastics for electronics, circuit board, linear polyester, polyamide, polyurethane. The recommended dosage, based on the resin, is from 2% up to 15%.

Storage

Store in dry and ventilated place, away from heat, sunlight and incompatible materials. Keep container tightly closed when not use.