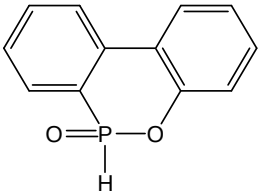
MK® 68 (DOPO)

ED0701

Description

Chemical Name	3,4,5,6-dibenzo-1,2-oxaphosphane-2-Oxide or 9,10-dihydro-9-oxa-10-phosphaphenanthrene-10-Oxide
CAS Number	35948-25-5
Chemical Structure	
Chemical Formula	$C_{12}H_9O_2P$
Molecular Weight	216

Specification

Appearance	White crystalline powder and granule
Assay	98% min
Melting Point	114°C~119°C
Specific Gravity	1.38~1.40 g/cm³ (25°C)
Solubility (g/L@20°C)	
Easily Soluble in	Methanol, Ethanol, Isopropanol, Chloroform
Slightly Soluble in	Acetone, Benzene
Hardly Soluble in	N-Hexane, Water
Packing	Net 25kg /box

Application

1. Anti-discoloring agent for ABS resins:

   MK 68 has a great resistance toward heat discoloring of ABS resins in the molding process. Generally, **MK 68** is added to ABS resins within the range of 0.05 to 1 phr, preferably 0.1 to 0.5 phr, which assures better results. **MK 68** exhibits better effects when used in combination with hindered phenolic stabilizers such as BHT, sulfur compounds such as DLTDP (dilaurylthiodipropionate) or Triphosphite.

2. Thermostabilizers of Polypropylene:

   When **MK 68** is added in an amount of 0.05 to 0.2 phr to polypropylene of the molding grade, thermal discoloration is prevented. For better effects, the combination with other stabilizers is recommended as set forth above.

3. Color Paling agent for phenolic resins:

   Addition of 0.1 to 1 phr of **MK 68** assures pale phenolic resins.

4. Flame-retardants:

   Reaction products of **MK 68** with itaconic acid are used as a reaction type flame-retardant of polymers. Reaction products of **MK 68** with dimethylol-benzoguanamine are used as an addition type flame-retardant of polymers.

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