

1,2-Bis(diphenylphosphine oxo)ethane AKnoka[®] ED802

I. Product Introduction

AKnoka[®] ED802 is a molecularly symmetric phosphorus-based flame retardant with excellent thermal stability, good compatibility with polymer materials such as epoxy resin, polyester, and nylon, high flame retardancy efficiency, and no impact on material transparency or electrical properties. It is a halogen-free additive designed for high-temperature applications.

General characteristic

Surface	White powder
Molecular formula	C ₂₆ H ₂₄ O ₂ P ₂
Cas number	4141-50-8
Formula weight	430.42
Water-solubility	Insoluble in water

Key indicators

	Project Unit Value	Project Unit Value	Project Unit Value
Phosphorus content	%		12-13
Purity	%		≥99.0
H ₂ O	%		≤0.30
Cl ⁻	ppm		≤50
Decomposition temperature	°C		≥350

2、Product Features

Low-smoke, halogen-free, environmentally friendly, and non-corrosive gas, used as an additive flame retardant for direct blending without participating in chemical reactions. Features high transparency, excellent heat resistance, and compatibility with high-temperature processing at 300°C+; non-migratory, non-exudative, and exhibits good compatibility.

III. Application Fields

Home appliance casings, chargers, power adapters, PCB circuit boards, and related fields.

IV. Storage and Packaging

Packaging: Each bag has a net weight of 25 kg and is constructed with a three-layer composite paper bag lined with polyethylene (PE).

Storage: Store in a cool, dry place.

V. Safety and Environmental Protection

The Material Safety Data Sheet (MSDS) for this product may be obtained from our company upon request. The MSDS provides information on material handling, safety precautions, disposal requirements, and applicable local health and safety regulations. This product complies with EU RoHS/REACH regulations. According to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), this product is not classified as hazardous.

6. Notes:

The information and data provided in this document are for reference purposes only, based on our current technical expertise and experience. Customers must conduct testing on purchased products to verify their suitability for specific processes or applications and ensure compliance with intended objectives. We cannot control further applications or processing procedures of the products. Our liability is limited to the delivered products you use and does not cover any indirect losses arising from their use. Our technical support and customer service teams are available to provide product consultation and application assistance. Please feel free to contact us via email or phone.