

Antioxidant 9228 Product Instruction Manual

Product Description:

Product Name: 双(2,4-二枯基苯基)季戊四醇-二亚磷酸酯

English name: 3,9-BIS(2,4-DICUMYLPHENOXY)-2,4,8,10-TET

Molecular formula: $C_{53}H_{58}O_6P_2$

Molecular weight: 852.97

CASNo.: 154862-43-8

Quality standard :

Quality Specifications of Antioxidant 9228

Project	Metric
Surface	White powder
Melting range / $^{\circ}C$	$\geq$ 225
Acidity value / (mgKOH/g)	$\leq$ 1.0
Water resistance (in $95^{\circ}C$ water for 5 hours)	Qualified

Product Property:

Antioxidant 9228 is a freely flowing, white solid powder of a specialized molecular structure phosphite ester, serving as an efficient antioxidant, anti-yellowing agent, thermal stabilizer, and melt stabilizer. Its key characteristics include high molecular weight, significant steric hindrance, low volatility, and high phosphorus content (7.3%). The molecular weight is 852, and the melting point exceeds $225^{\circ}C$.

Product use :

Antioxidant 9228 is a novel high-molecular-weight phosphite ester antioxidant with excellent thermal stability and hydrolytic stability.

- 1、 In humid environments, antioxidant 9228 maintains excellent hydrolytic stability.
- 2、 During high-temperature processing and application, it provides excellent resistance to yellowing and thermal degradation, making it suitable for polymers requiring superior thermal stability.

Main Applications

- 3、 Polypropylene: Polypropylene systems often require phenol-free antioxidants to prevent reactions with other additives. Antioxidant 9228, as a phosphite ester antioxidant, maintains excellent efficacy even when used alone.
- 4、 Polyethylene provides excellent color protection and melt stability; its color and melt index can be effectively controlled even after multiple extrusions.

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5、Polycarbonate requires elevated temperatures for processing and application. Antioxidant 9228 exhibits high molecular weight, low volatility, and excellent thermal stability, making it suitable for high-temperature processing applications.

6、Other heat-resistant polymer synthesis and processing methods, such as polyester (PET), polyamide (PA), polyether sulfone (PES), and polyether.

Product Addition Amount

The exact dosage is determined based on customer application testing.

Product Shelf Life

General chemicals should be stored in a dry and cool environment, with a recommended storage period of 12 months.

Product packaging

Antioxidant 9228 is packaged in PE-lined plastic bags with outer cardboard boxes, with a specification of 25 kg per bag. Packaging can also be customized according to user requirements.

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