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Stock:002768
PLASTICS

Antioxidant 626 Product Instructions

Product Description:

Chemical name: 双(2,4-二叔丁基苯基)季戊四醇二亚磷酸酯

English name: Bis(2,4-di-tert-butylphenyl)pentaerythritol diphosphite

Molecular formula: $C_{33}H_{50}O_6P_2$

Molecular Weight: 604.71

CASNo.: 26741-53-7

Product Property:

This product appears as white granules or powder with a melting point of 170°C–180°C. It is a highly effective phosphite-based auxiliary antioxidant with excellent processing stability. It exhibits stable properties, is colorless, non-contaminating, and demonstrates superior resistance to volatilization.

Project		Metric
Surface		White powder or granules
Melting range /°C		170–180
Heating loss /%	≤	1.0
Effective component content	≥	98.0
Acid value / (mgKOH/g)	≤	1.0
Main Content (%)	≥	96.0
Content of 2,4-di-tert-butylphenol /%	≤	1.0
Note: Antioxidant 626 typically contains ≤1% of anhydrous agent.		

Product use :

This product prevents polymer degradation caused by hydroperoxides during processing. It interacts with hydroperoxides to inhibit free radical generation, hence its designation as a hydroperoxide scavenger. It exhibits excellent synergistic effects with major phenolic antioxidants such as 1010 and 1076, and is used in polyolefin or olefin copolymers including PE, PP, EVA, PC, and PA, as well as in engineering materials like polyamide, polyester, ABS resin, and rubber. Additionally, it protects polymers from molecular weight changes (e.g., chain breakage in PP or cross-linking in PE) and color alterations induced by oxidation during processes such as mixing, pelletizing, and extrusion.

Product Shelf Life:

The shelf life is 6 months from the date of production.

Product packaging :

Antioxidant 626 is packaged in aluminum foil bags with a specification of 25 kg per bag, or can be packaged according to customer requirements.