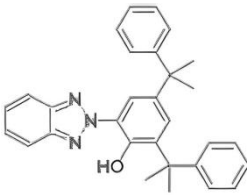


UV absorber-234

UV-234 is particularly effective for resins requiring high-temperature processing, such as polycarbonate, polyester, polyoxymethylene, polyamide, polyphenylene sulfide, polyphenylene ether, thermoplastic polyurethane, and polyurethane fiber; it features low volatility, strong light absorption properties, and excellent compatibility with various substrates. It is especially suitable for high surface-area products, such as films and fibers. When applied in coatings, this product is recommended for use in automotive coatings, roll-coated coatings, and powder coatings; when combined with hindered amine photostabilizers, its performance becomes even more optimal. Such composite formulations can provide superior protection for coatings, including preventing discoloration, loss of gloss, cracking, blistering, and detachment from the substrate.

1. Product physicochemical properties

1.1 Product basic information

Project	Content
Chemical name	2-(2H-benzotriazol-2-yl)-4, 6-bis (1-methyl-1-phenylethyl) phenol
CAS No.	70321-86-7
Chemical constitution	
Formula weight	447

1.2 Technical parameter

Test item	Parameter
Appearance	Light yellow powder
Content %	≥99.0
Melting range °C	137-141
Ash %	≤0.1
Transmittance ,% at 460 nm	≥97.0
Transmittance ,% at 500 nm	≥98.0
Heating loss %	≤0.3

1.3 Solubility (20 °C, g/100 mL solvent)

Solvent	Solubility
Acetone	4g
Methyl n-pentanone	5g
Methyl ethyl glycol acetate	2g
N-hexane	<0.5g
Dimethylbenzene	10g
100# solvent oil	13g
Butyl acetate	11g
Alcohol	<0.5g
Water	<0.01g
Diethylene glycol butyl ether	<0.01g

2. Operation and safety

1. This product is a general-purpose plastic additive; it can be handled in accordance with standard chemical raw material operating procedures;
2. Avoid generating large amounts of dust; ensure the workshop is well-ventilated and kept away from open flames and high-temperature heat sources;
3. Personal protection: Wear a dust-proof mask and nitrile-resistant gloves;
4. For complete information on first aid, leakage, storage, and transportation, and hazard details, please refer to the accompanying SDS (safety data sheet).

3. Storage and transportation

1. Store in a cool, dry, and well-ventilated warehouse; avoid direct sunlight, exposure to rain, and moisture.
2. Store separately from strong oxidizing agents, strong acids, and strong alkalis;
3. The original factory-sealed product has a shelf life of 24 months at room temperature; once opened, it should be used as soon as possible to prevent moisture absorption and clumping.