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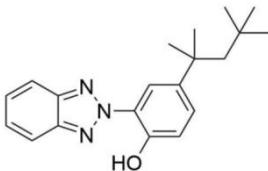
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UV Absorber UV-329

UV-329 is a high-performance UV absorber for various plastics and organic substrates. It preserves the initial color and physical integrity of articles by absorbing ultraviolet radiation. The recommended dosage ranges from 0.1%–1.0%, subject to the substrate used. It can be applied alone or combined with HALS and antioxidants. The most prominent synergistic effect is achieved when blended with HALS.

1. Product physicochemical properties

1.1 Product basic information

Project	Content
Chemical name	2-(2h-benzotriazole-2-yl)-4-(1, 1, 3, 3-tetramethylbutyl) phenol
CAS No.	3147-75-9
Molecular structure	
Formula weight	323

1.2 Technical parameter

Test item	Parameter
Appearance	White powder
Content (%)	≥99.0

Test item	Parameter
Melting range °C	101-106
Ash %	≤0.05
Volatile matter %	≤0.5
Transmittance ,at 440 nm%	≥97.0
Transmittance ,at 500 nm%	≥98.0

1.3 Solubility (20 °c, g/100 ml solvent)

Solvent	Solubility
Acetone	9g
N-hexane	6g
Chloroform	37g
Benzene	32g
Cyclohexane	15g
Alcohol	0.6g
Water	< 0.01g
Ethyl acetate	15g
Dichloromethane	38g

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. Prevent the generation of large amounts of dust; ensure proper ventilation in the workshop and keep it away from open flames and high-temperature heat sources;

3. Personal protection: Wear a dust-proof mask and nitrile protective 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, or 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.