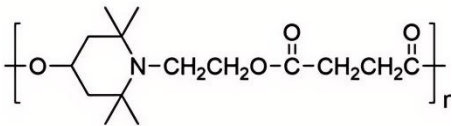


Light stabilizer UV-622

Polymerized hindered amines feature high molecular weight, low volatility, no migration, and no frosting; they exhibit minimal processing loss even at elevated temperatures. They possess mild alkalinity and can be effectively blended with acidic additives and thioantioxidants without any antagonistic effects. These compounds incorporate multiple anti-aging mechanisms, offering excellent resistance to water extraction, solvent extraction, as well as long-term weathering and color retention. They demonstrate superior compatibility with polyolefin systems, exhibit significant synergistic efficacy when combined with UV absorbers, and are well-suited for use in carbon black-filled products.

1. Physical and chemical properties of the product

1.1 Product basic information

Project	Content
Chemical name	Butanedioic acid, 1,4-dimethyl ester, polymer with 4-hydroxy-2,2,6,6-tetramethyl-1-piperidineethanol
CAS number	65447-77-0
Molecular structure	
Formula weight	3100-5000

1.2 Technical parameter

Test Item	Parameter
Appearance	White granules or powder

Test Item	Parameter
Softening point °C	≥55
Ash %	≤0.1
Transmittance,% at 425 nm	≥98.0
Transmittance,% at 500 nm	≥99.0
Drying reduction %	≤0.5

1.3 TGA thermogravimetric data

Temperature	Heat loss ratio
200°C	0.1%
260°C	0.5%
280°C	1.0%

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

Solvent	Solubility
Methylbenzene	13.01g
Methyl n-pentanone	11.45g
Acetone	6.31g
Butyl acetate	13.46g
Alcohol	<0.40g
N-hexane	<0.33g
Diethylene glycol butyl ether	2.70g
Pure water	<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 protective gloves.
4. For complete information on emergency response, leakage handling, storage, and transportation, and hazards, 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 bases;
3. The factory-sealed product has a shelf life of 24 months at room temperature. It should be used promptly after opening to prevent moisture absorption and clumping.