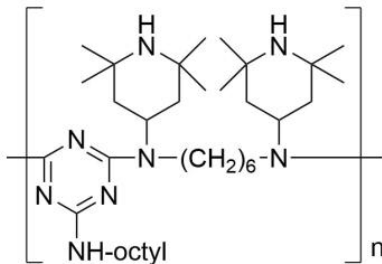


Light stabilizer UV-944

This product is a hindered high-molecular-weight photostabilizer; due to the presence of multiple functional groups within its molecular structure, it exhibits excellent photostabilization performance. Its high molecular weight confers superior heat resistance, extraction resistance, low volatility, and good resin compatibility. This product is primarily suitable for applications such as low-density polyethylene films, polypropylene fibers, polypropylene tapes, EVA films, ABS, polystyrene, and food packaging; for greenhouse film production, the recommended dosage is 2‰.

1. Product physicochemical properties

1.1 Product basic information

Project	Content
Chemical name	Poly- {[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidyl)imino]-1,6-hexane diyl[(2,2,6,6-tetramethyl-4-piperidyl)imino]}
CAS number	70624-18-9,71878-19-8
Molecular structure	
Formula weight	2100-3000

1.2 Technical parameter

Test item	Parameter
Appearance	Light yellow granules

Test item	Parameter
Softening point °C	≥112
Ash %	≤0.1
Transmittance,% at 425 nm	≥92.0
Transmittance,% at 500 nm	≥95.0
Drying reduction %	≤1.0

1.3 TGA thermogravimetric data

Temperature	Thermal weight loss ratio
270°C	0.1%
300°C	1.0%
325°C	3.7%
350°C	5%

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

Solvent	Solubility
Dichloromethane	>66.30g
Chloroform	>44.67g
Methylbenzene	>43.30g
Acetone	>39.40g
Ethyl acetate	>45.10g

Solvent	Solubility
Alcohol	<0.08g
Methanol	2.33g
N-hexane	27.019g
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. Minimize dust generation; ensure proper ventilation in the workshop and keep it away from open flames and high-temperature 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 hazards, please refer to the accompanying safety data sheet (SDS).

3. Storage and transportation

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