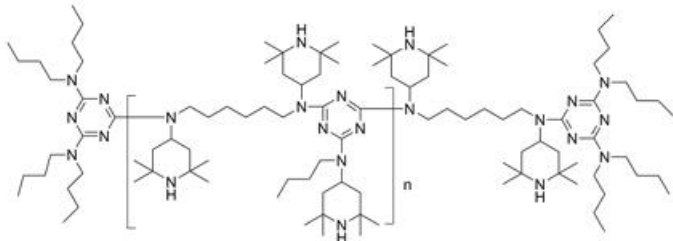


Light stabilizer UV-2020

This high-molecular polymeric hindered amine features narrow molecular weight distribution, low volatility, zero migration, and no foaming, with minimal material loss during high-temperature extrusion granulation. It strongly resists water and solvent extraction to stay stably inside substrates for long service life. Besides outstanding light stability and long-term auxiliary thermal stability, it blends well with carbon black and acidic fillers without odor or discoloration. Applicable to polyolefins, elastomers, PA, PVC, films, flat yarns, and artificial turf fibers; its weather resistance can be greatly improved when compounded with UV absorbers.

1. Product physicochemical properties

1.1 Product basic information

Project	Content
Chemical name	1,6-Hexanediamine, N ¹ ,N ⁶ -bis(2,2,6,6-tetramethyl-4-piperidinyl)-, polymer with 2,4,6-trichloro-1,3,5-triazine, reaction products with N-butyl-1-butanamine and N-butyl-2,2,6,6-tetramethyl-4-piperidineamine
CAS number	192268-64-7
Molecular structure	
Formula weight	2600 – 3400

1.2 Technical parameter

Test item	Parameter
Appearance	White or light yellow granules
Melting range °C	110-135
Ash %	≤0.1
Transmittance,% at 425 nm	≥93.0
Transmittance,% at 450 nm	≥95.0
Transmittance,% at 500 nm	≥97.0
Drying reduction %	≤1.0
Chlorinity ppm	≤1000

1.3 TGA thermogravimetric data

Temperature	Thermal weight loss ratio
374°C	1%
433°C	5%
449°C	10%

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

Solvent	Solubility
Dichloromethane	>19.89g
Butylene oxide	>13.34g
N-caprylic alcohol	>0.83g
Isopropanol	>0.16g
N-hexane	>32.95g

Solvent	Solubility
Pure water	<0.0001g

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 alkalis;
3. The original factory seal's shelf life at room temperature is 24 months; once opened, use it as soon as possible and keep it away from moisture.