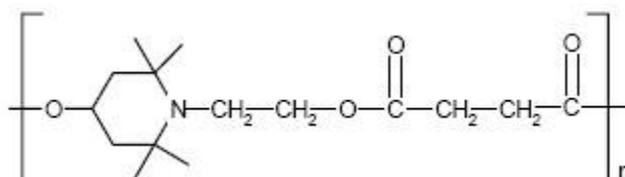


UV-622

Properties and Characteristics



UV-622 is a low-dust, polymeric hindered amine light stabilizer that provides outstanding light stability to a wide range of polymers. It provides good process heat stability, good compatibility with resins, and prevents the degradation of polymers caused by light, heat, weather, and moisture.

Specifications

Property	Value
CAS Number	65447-77-0
Appearance	White crystal powder
Other Names	Poly-(N-β-hydroxyethyl-2,2,6,6-tetramethyl-4-hydroxy-piperidyl succinate); 4-hydroxy-2,2,6,6-tetramethyl-1-piperidine-ethanol polymer with dimethyl succinate; HALS 622
Equivalent	Tinuvin 622 (Ciba); Uvinul 5062 H (BASF); Lowilite 62
Molecular Formula	(C ₁₅ H ₂₅ NO ₄) _n
Molecular Weight	2,500 min
Specific gravity (20°C)	1.22 g/cm ³
Vapor pressure (20°C)	2.5 E-6 Pa
Melting point	50-70°C
Volatile matter	0.5% max
Ash	0.1% max
Light transmittance	425nm: 93.0% min
	500nm: 95.0% min

Applications

UV-622 areas of applications include polyolefins (PP, PE, PS), olefin copolymers such as EVA as well as blends of polypropylene with elastomers. In addition, UV-622 is highly effective in polyacetals, polyamides and polyurethane applications. The effectiveness of UV-622 greatly surpasses that of most other UV absorbers, particularly in pigmented systems, coatings, fibers, films and tapes. Product can be incorporated in monomers before polymerization, often with improvement to resin quality. Combinations of UV-622 with other UV absorbers or certain antioxidants in many cases result in synergistic effects.

Guidelines for use:

Thick sections	UV stabilization of HDPE, LLDPE, LDPE and PP	0.15-0.50%
Films	UV stabilization of LDPE and LLDPE	0.10-1.20%
Tapes	UV stabilization of HDPE and PP	0.20-0.80%
Fibers	UV stabilization of PP fibers	0.10-1.00%
Food packaging applications	UV stabilization of polyolefins and PVA	0.3% max

Packaging

25kg polypropylene bags, 110lb fiber drum (inner with plastic bag) on pallet, or as required by customer.

Handling and Safety

In accordance with good industrial practice, handle with care and prevent contamination of the environment. Avoid dust formation and ignition sources. For more detailed information please refer to the material safety data sheet.