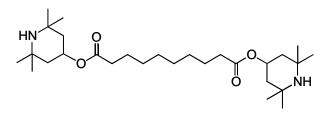


ADK STAB LA-77Y ADK STAB LA-77G

- Hindered Amine Light Stabilizer -

Identification



[CAS Number] 52829-07-9

[Chemical Name] Decanedioic acid, bis(2,2,6,6tetramethyl-4-piperidinyl) ester [Formula] C₂₈H₅₂N₂O₄ [Molecular Weight] 481

Features

- Is a very common low molecular N-H-type HALS.
- Provides excellent weatherability (light stability) to a wide variety of polymers, especially thick molded article.
- Shows a synergistic effect when used in combination with UV absorbers.

Applications

- Polyolefin resins such as PP and PE.
- Styrene resins such as PS and ABS.
- PA, POM, PMMA, PVC, Elastomers, etc.



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Physical and chemical properties

- Appearance LA-77Y: White powder
 - LA-77G: White granule
- Melting Point
 82 87 °C
- Thermal stability (TGA, 10°C/min, Air 200ml /min) 10% weight loss temperature: 273°C
- Solubility (g/100g solvent at 25 °C) Benzene:46, Chloroform:45,

Hexane:5, Methanol: 38

(mg/l solvent at 21.5 °C) Water: < 0.1

* Above value of properties are just typical, not specific **Performance**

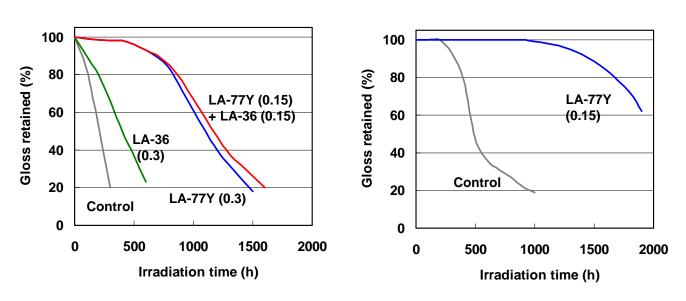


Fig.1 Weatherability of PP-b (Surface gloss) Fig.2 Weatherability of HDPE (Surface gloss)

[Formulation] Block PP/ AO-60/ Ca-St = 100/ 0.1/ 0.05 [Plaque] 1mm thick [Test] Sunshine weathermeter, 63°C

*LA-36: Benzotriazole UVA, CAS No. 3896-11-5 *Control: without UVA and HALS

[Formulation]HDPE/LA-77Y=100/0.15 or 0[Plaque]1mm thick[Test]Sunshine weathermeter, 63°C

Handling and storage

- Store in the original container securely under cool and dry condition.
- Protective clothing should be worn when operators are handling, or being exposed to, this product. See the MSDS for further detailed advice.

