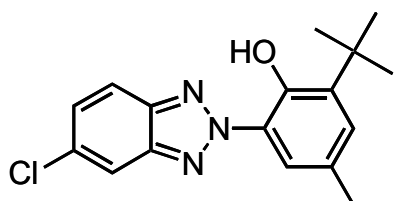


ADK STAB LA-36 ADK STAB LA-36RG

— Benzotriazole UV Absorber—

Identification



[CAS Number]

3896-11-5

[Chemical Name]

Phenol, 2-(5-chloro-2H-benzotriazol-2-yl)-6-(1,1-dimethylethyl)-4-methyl-

* Other name: 2-(3'-tert-Butyl-2'-hydroxy-5'-methylphenyl)-5-chlorobenzotriazole

[Formula]

C₁₇H₁₈ClN₃O

[Molecular Weight]

315

Features

- Shows absorption in longer-wavelength UV regions compared with other benzotriazole-type UV absorbers. It also has excellent compatibility with a wide variety of polymers.
- Protects polymers from photo-degradation by absorbing UV light before it hits the polymer, which drastically reduces discoloration and slows the decline in physical and mechanical properties of the polymer.
- Shows a marked synergistic effect on weatherability (light stability) when used with HALS (hindered amine light stabilizer).
- Approved as an indirect additive in food contact substances in US, EU and Japan. Potential application is food packaging. (For additional information such as kind of adaptable polymers, please ask our Sales Department.)

Applications

- Polyolefins such as PP and PE
- Styrene resins such as PS and ABS
- Engineering plastics, PVC, etc.
- Adhesives, coatings, sealants, etc.

Physical and mechanical properties

- Appearance
LA-36: Pale yellow powder
LA-36RG: Pale yellow granule
- Melting point
138 - 141 °C
- Thermal stability
5% weight loss temp.: 249°C
10% weight loss temp.: 265°C
- Solubility(g/100g solvent, 25°C)
Toluene : 9.5, Acetic ether : 2.5,
Ethanol : 0.1

(*Above value of properties are just typical, not specific)

Performance

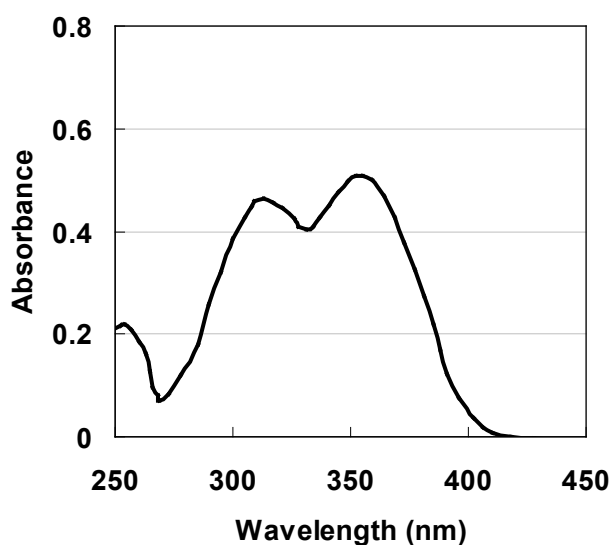


Fig.1 UV absorption spectra

Chloroform solution (10mg/ L)
1cm cell

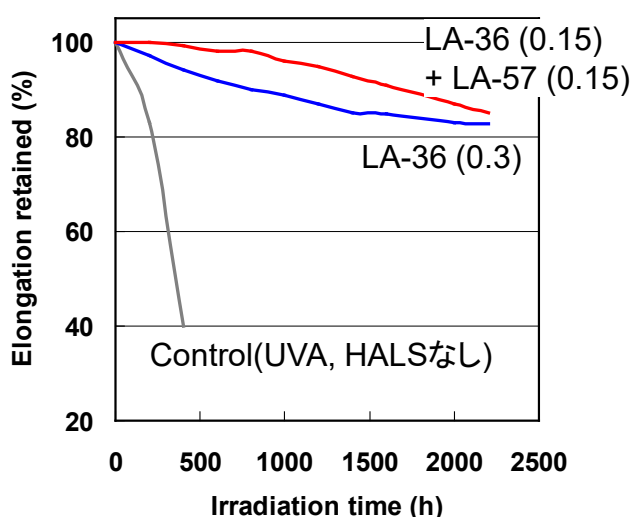


Fig.2 Weatherability (tensile test)

[Formulation] ICP(100)/ AO-60(0.1)/ BHT(0.05)/
CaSt(0.2)/ UVA or/and HALS (see graph)
[Weathering test] Sunshine weathermeter,
B.P. at 63°C with water spray.

Handling and storage

- Please store in the original container securely under cool and dry conditions.
- Protective clothing should be worn when operators are handling or being exposed to this product. Please review the SDS for further detailed advice.