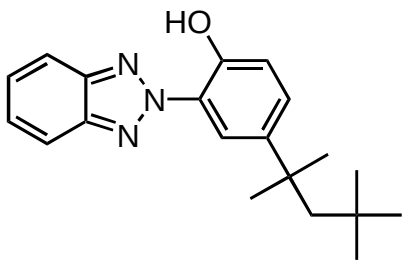
August 6, 2020

ADK STABILIZER LA-541G

― Benzotriazole UV Absorber ―

Identification



［CAS Number ］
3147-75-9
［Chemical Name］
(2H-benzotriazole-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol
［Formula］
$C_{20}H_{25}N_3O$
［Molecular Weight］
323

Features

- Strong UV absorber which exhibits low color contribution in the polymer. 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 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 such as PC, PU, Polyesters

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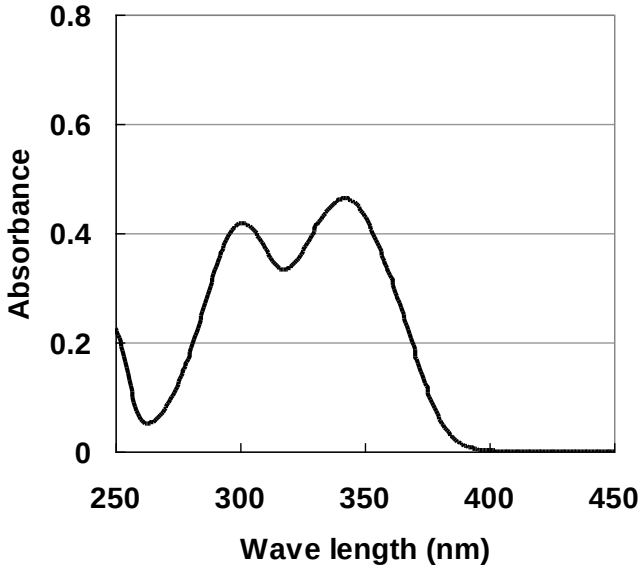
Physical and mechanical properties

- Appearance — Slightly yellow granule
- Melting point — 102 - 106 ºC
- Thermal stability — 10% weight loss temp.: 264℃
  (TGA, 10ºC/min, Dry Air 200ml /min)
- Solubility(g/100g solvent, 25ºC) — Water:<0.1

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

Performance

- UV absorption spectra
  (Chloroform solution (10mg/ L), 1cm cell)



Handling and storage

- 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. See the SDS for further detailed advice.

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