



Technical Data Sheet

Product name: UV-328

Product Form: Crystalline powder or pellet

Chemical name: 2-(2'-Hydroxy-3',5'-di-tert-pentylphenyl)-benzotriazole Synonym: Tinuvin 328

CAS No: 21615-49-6

EINECS No: 247-384-8

Molecular formula: C₂₂H₂₉N₃O

Molecular weight: 351.50

IUPAC Name: 2-(benzotriazol-2-yl)-4,6-bis(2-methylbutan-2-yl)phenol

Specification:

Appearance: light yellowish powder or pellet

Melting Point (°C): 81 min.

Ash (%): 0.05 max.

Volatile matter (%): 0.5 max.

Transmittance:

440 nm (%): 97 min.

500 nm (%): 98 min.

Assay (%): 99.0 min.

Characterization:

UV-328 is an ultraviolet light absorber (UVA) of the hydroxyphenylbenzotriazole class, which imparts outstanding light stability to plastics and other organic substrates.

Applications:

UV-328 is a highly effective light stabilizer for a variety of plastics and other organic substrates. Its use is recommended for the stabilization of styrene homo- and copolymers, acrylic polymers, unsaturated polyesters, polyvinylchloride, polyolefins, polyurethanes, polyacetals, polyvinyl butyral, elastomers, and adhesives

Features/benefits:

UV-328 features strong UV absorption, low initial color, excellent compatibility in a wide variety of substrates, good solubility in plasticizers and monomers, and moderately low volatility. It protects polymers as well as organic pigments from UV radiation, helping to preserve the original appearance and physical integrity of molded articles, films, sheets, and fibers during outdoor weathering.

Guidelines for use:



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The use levels of UV-328 range between 0.10 and 1.0%, depending on substrate and performance requirements of the final application. The product can be used alone or in combination with other additives such as light stabilizers (hindered amines), antioxidants (hindered phenols, phosphites, thiosynergists, hydroxylamines, lactones), and other functional stabilizers and additives. The use of UV-328 in combination with hindered amine light stabilizers is particularly noteworthy in that a synergistic performance is often observed. Performance data for UV-328 alone and in combination with other additives are available in a variety of substrates.

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