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Uvinul® 3035

Cyanoacrylate UV Absorber

Characterization

Uvinul 3035 is an ultraviolet light absorber (UVA) of the cyanoacrylate class, imparting excellent light stability to a variety of polymers.

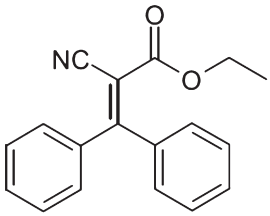
Chemical name

Ethyl-2-cyano-3,3-diphenyl acrylate

CAS number

5232-99-5

Chemical formula



Molecular weight

277 g/mol

Applications

Uvinul 3035 is particularly suitable for the stabilization of PVC, PA, PC, ABS, SAN and ASA. It can also be used in PS and PUR.

Features/benefits

Uvinul 3035 offers exceptional light absorbing characteristics and good compatibility in various substrates. The product has no inherent color, hence, color and transparency of the substrate will not be impacted.

Product forms

White, crystalline powder

Guidelines for use

Use levels of Uvinul 3035 range between 0.1 and 1.0 %, depending on substrate and performance requirements of the final application. Uvinul 3035 can be used alone or in combination with other functional additives such as antioxidants (hindered phenols, phosphites) and HALS light stabilizers, where often a synergistic performance is observed. Extensive performance data of Uvinul 3035 alone or in combination with other additives are available in many of the substrates listed above.

Physical Properties

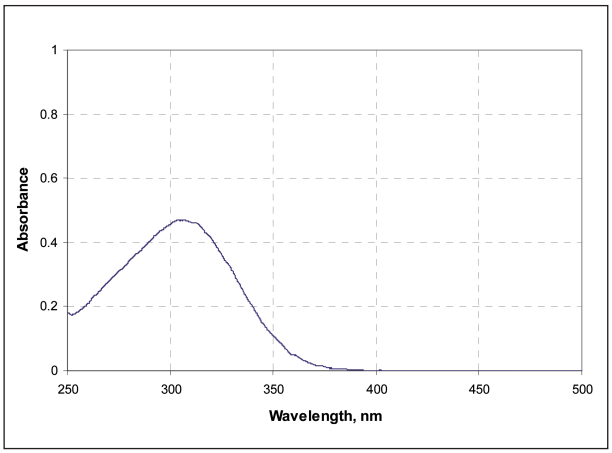
Melting Range	95 – 100 °C
Specific Gravity (25 °C)	1.16 g/ml
Vapor Pressure (25 °C)	< 1 E-3 Pa

Solubility (20 °C)	**g/100 g solution**
Ethyl acetate	35
Methanol	7
Methyl ethyl ketone	27
Toluene	31
Water	< 0.01

Volatility (pure substance; TGA, heating rate 20 °C/min in air)

Weight Loss %	Temperature °C
1.0	205
5.0	240
10.0	260

Absorbance spectrum
(10 mg/l, Chloroform)



Uvinul 3035 exhibits high absorbance in the 280 – 320 nm region and no absorbance in the visible region (> 400 nm) of the spectrum. The absorption maximum is at 307 nm in chloroform solution.

Handling & Safety

Uvinul 3035 exhibits a very low order of oral toxicity and does not present any abnormal problems in its handling or general use.

Detailed information on handling and any precautions to be observed in the use of the product(s) described in this leaflet can be found in our relevant health and safety information sheet.

Note

August 2010

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