

® = registered trademark of BASF SE

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.

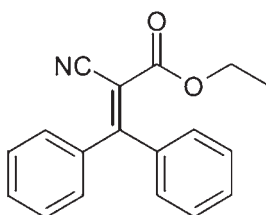
Chemical name

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
Bulk density	0.78 ml
Angle of repose	42 °
Vapor Pressure (25 °C)	< 1 E-3 Pa

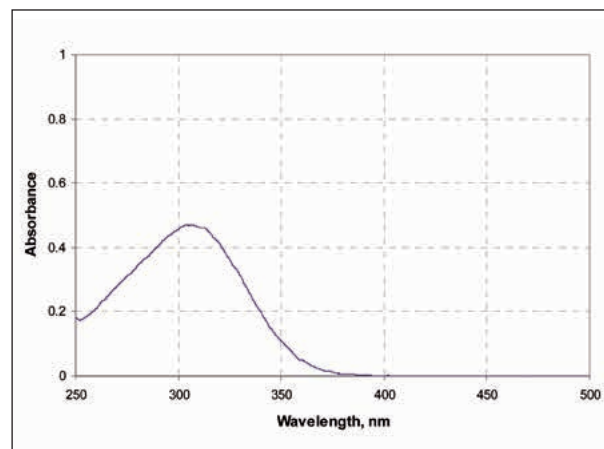
Solubility (20 °C)	g/100 g solution
Ethyl acetate	35
Methanol	7
Methyl ethyl ketone	27
Toluene	31
Water	< 0.01

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

The descriptions, designs, data and information contained herein are presented in good faith, and are based on BASF's current knowledge and experience. They are provided for guidance only, and do not constitute the agreed contractual quality of the product or a part of BASF's terms and conditions of sale. Because many factors may affect processing or application/use of the product, BASF recommends that the reader carry out its own investigations and tests to determine the suitability of a product for its particular purpose prior to use. It is the responsibility of the recipient of product to ensure that any proprietary rights and existing laws and legislation are observed. No warranties of any kind, either expressed or implied, including, but not limited to, warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth herein, or that the products, descriptions, designs, data or information may be used without infringing the intellectual property rights of others. Any descriptions, designs, data and information given in this publication may change without prior information. The descriptions, designs, data and information furnished by BASF hereunder are given gratis and BASF assumes no obligation or liability for the descriptions, designs, data or information given or results obtained, all such being given and accepted at the reader's risk.

August 2015

BASF Schweiz AG
Performance Chemicals/Plastic Additives
Klybeckstrasse 141
4057 Basel, Switzerland