

® = registered trademark of BASF SE

Uvinul® 3030

Very Low Volatile Cyanoacrylate UV Absorber

Characterization

Uvinul 3030 is a very low volatile ultraviolet light absorber (UVA) of the cyanoacrylate class, imparting excellent light stability to engineering polymers.

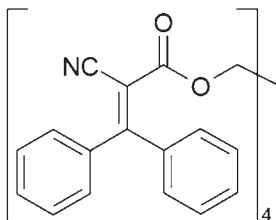
Chemical name

1,3-bis-((2'-cyano-3',3'-diphenylacryloyl)oxy)-2,2-bis-(((2'-cyano-3',3'-diphenylacryloyl)oxy)methyl)-propane

CAS number

178671-58-4

Chemical formula



Molecular weight

1061 g/mol

Applications

Uvinul 3030 is a UV absorber featuring maximal thermal stability, minimal volatility, and no inherent color. Therefore, it can be used to stabilize highly transparent polymers with high extrusion temperatures. Besides PET, Uvinul 3030 is particularly suitable for PC co-extrusion due to its good compatibility with the production process and excellent stabilizing effect.

Product forms

Uvinul 3030	White, crystalline powder
Uvinul 3030 FF	White, free-flowing granules

Guidelines for use

Use levels of Uvinul 3030 range between 0.2 and 10%, depending on substrate and performance requirements of the final application. Uvinul 3030 can be used alone or in combination with other functional additives such as antioxidants (hindered phenols, phosphites) and HALS light stabilizers. Extensive performance data of Uvinul 3030 alone or in combination with other additives are available for many applications.

Physical Properties

Melting Range	175–178 °C
Specific Gravity (20 °C)	1.2 g/ml
Bulk density	
Uvinul 3030	0.50 g/ml
Uvinul 3030 FF	0.58 g/ml
Angle of repose	
Uvinul 3030	52 °
Uvinul 3030 FF	38 °

Solubility (20 °C)

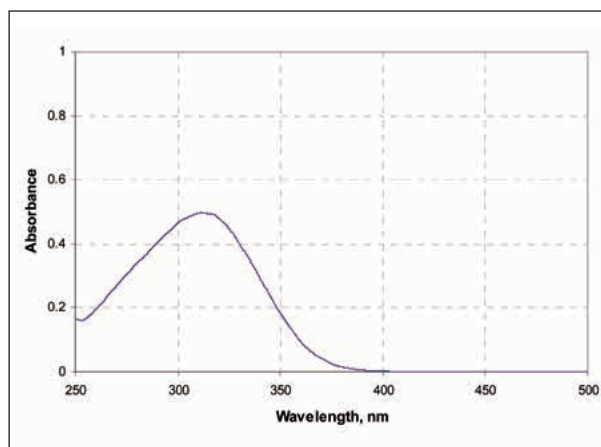
Ethyl acetate	0.2
Methanol	< 0.01
Methyl ethyl ketone	7
Toluene	0.8
Water	< 0.01

g/100 g solution**Volatility** (pure substance; TGA, heating rate 20 °C/min in air)

Weight Loss %	Temperature °C
0.1	340
1.0	365
5.0	385

Absorbance spectrum

(10 mg/l, Chloroform)



Uvinul 3030 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 311 nm in chloroform solution.

Handling & Safety

Uvinul 3030 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.

