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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.

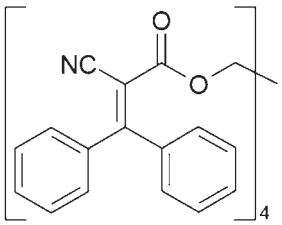
Chemical name

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 compati-bility 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 sub-strate 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

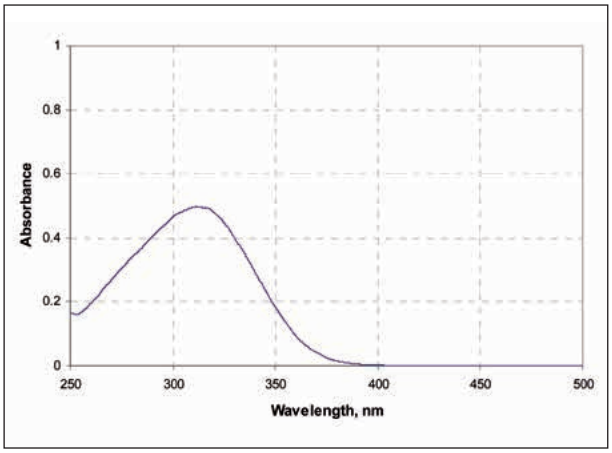
Melting Range	175 – 178 °C
Specific Gravity (20 °C)	1.2 g/ml
Bulk density	
Uvinul 3030	0.50 g/ml
Uvinul 3030 FF	0.58 g/ml
Angle of repose	
Uvinul 3030	52 °
Uvinul 3030 FF	38 °

Solubility (20 °C)	**g/100 g solution**
Ethyl acetate	0.2
Methanol	< 0.01
Methyl ethyl ketone	7
Toluene	0.8
Water	< 0.01

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

August 2015

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