

Tinuvin[®] 460

Product Description	Tinuvin 460 is a UV light absorber of the hydroxyphenyl-triazine class. Due to its extremely high extinction, it provides outstanding protection to coatings and light sensitive substrates and materials. It is therefore especially suited for use in silver halide photographic papers or overprint varnishes.
Key Features & Benefits	- Solid hydroxyphenyl-triazine UVA - Extremely high extinction in the UV-A region enables photoprotection of thin films - Excellent photopermanence - Low color
Chemical Composition	Hydroxyphenyl-triazine UV light absorber
	Properties

Typical Properties Appearance slightly yellow powder °C Melting range 93 - 102 Solubility at 20 °C (g/100 g solution): **Butanol** not soluble Ethyl acetate 3.2 Butyl acetate 4.3 Ethylglycol not soluble Methoxypropylacetate 1.9 Methylethylketone 5.7 Water < 0.01

These typical values should not be interpreted as specifications.





 $\epsilon_{max} = 62,100 \text{ l.mol}^{-1}.\text{cm}^{-1}$

Applications

	Storage
Safety Data Sheet	All safety information is provided in the Safety Data Sheet for Tinuvin 460.
General	The usual safety precautions when handling chemicals must be observed. These include the measure described in Federal, State and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.
	Safety
	(concentrations are based on weight percent binder solids)
	0.5 – 2.0 % Tinuvin 123, Tinuvin 249 or Tinuvin 292
	+
Recommend Concentrations	0.5 - 3% Tinuvin 460
	The amount of Tinuvin 460 required for optimum performance should be determined in laboratory trials covering a concentration range
	The product can also be used in other reprographic applications in which a UV filter is needed e.g. in non-silver imaging color hardcopy.
	In silver halide color negative papers, it is particularly useful for protecting the dyes and couplers from harmful UV light.
	In photographic applications, Tinuvin 460 can be combined with other UV absorbers, such as Tinuvin 326, to achieve desired absorption characteristics.
	 Trade sale paints such as wood stains or do-it-yourself paints
	 Tinuvin 460 is recommended for use in: Silver halide photographic materials such as color negative papers Overprint varnishes for commercial, publication, or packaging applications Industrial coatings
	initial yellowing must be kept to a minimum.
	Tinuvin 460 is a UV light absorber of the hydroxyphenyl-triazine class. Since its absorption spectrum

Please refer to the "Handling and Storage of Polymer Dispersions" brochure.

Important

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