

## Tinuvin® XT 833

Technical DataSheet | Supplied by BASF

Tinuvin® XT 833 by BASF is hindered amine derivate. It is a novel high performance light stabilizer system that imparts outstanding weatherability to PVC and to PVC alloys. The primary advantage of Tinuvin XT 833 over the more traditional ultraviolet absorbers typically added to exterior PVC is the superior color and physical property retention that it provides. It is especially recommended for applications like PVC roofing membranes, PVC pond, pool, and irrigation liners, PVC coated fabrics such as those used in tents, tarps, and awnings, flexible PVC outdoor furniture, PVC flooring, PVC automotive trim, and in other flexible PVC outdoor applications. It can also be used in rigid PVC formulations, especially those that do not contain tin mercaptide thermal stabilizers. Some of the applications include dark colored PVC siding and pigmented window and door profiles. Additionally, Tinuvin® XT 833 can be used in PVC alloys like PVC/ABS and PVC/PUR for parts exposed to sunlight. Its recommended level for harsh conditions such as in roofing, siding, and decking, the recommended concentration is 1% or higher. For less severe end uses, 0.2-1.0% may be used.

<b>Product Type</b>	Light Stabilizers / UV Absorbers > HALS, Hindered Amines
<b>Chemical Composition</b>	Hindered amine derivative
<b>Masterbatch</b>	No
<b>Physical Form</b>	Granules
<b>Appearance</b>	White to off-white
<b>Product Status</b>	DISCONTINUED
<b>Applications/ Recommended for</b>	PVC > PVC, rigid ABS Automotive/ Transportation > External > Pillar trims Buildings & constructions > Flooring Buildings & constructions > Windows (incl. window profiles) Fibers/ Textiles/ Carpets > Coated fabrics Households products/ Consumer Goods > Sports & Leisures > Swimming pools Packaging > Industrial / Agriculture / Consumer goods > Liners Polymer protection > Weatherability (UV, moisture, Oxygen...)
<b>Food contact approval</b>	Yes
<b>Bio Based</b>	No

## Tinuvin® XT 833 Properties

Property	Value & Unit	Test Condition	Test Method
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**Melting range** 63 - 75 °C

**Bulk density** 488 g/l

**Solubility@ 20°C in chloroform** 39 %

**Solubility@ 20°C in ethanol** 2 %

**Solubility@ 20°C in n-hexanes** 20 %

**Solubility@ 20°C in methyl ethyl ketone** 30 %

**Solubility@ 20°C in methylene chloride** 52 %

**Solubility@ 20°C in toluene** 43 %

**Solubility@ 20°C in bis (2-ethylhexyl) adipate** < 5 %

**Solubility@ 20°C in tritoyl phosphate** < 2 %

**Solubility@ 20°C in DOP (dioctyl phthalate)** < 1 %

**Solubility@ 20°C in ESBO (epoxidized soybean oil)** < 1 %

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