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.

Product Type	Light Stabilizers / UV Absorbers > HALS, Hindered Amines
Chemical Composition	Hindered amine derivative
Masterbatch	No
Physical Form	Granules
Appearance	White to off-white
Product Status	DISCONTINUED
Applications/ Recommended for	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...)
Food contact approval	Yes
Bio Based	No

Tinuvin® XT 833 Properties

Property	Value & Unit	Test Condition	Test Method

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 tritolyl phosphate	< 2 %
Solubility@ 20°C in DOP (dioctyl phthalate)	< 1 %
Solubility@ 20°C in ESBO (epoxidized soybean oil)	< 1 %

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