## **Technical Information**

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TI/EVF 1023 e November 2010 **Plastic Additives** 

## The Chemical Company

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## Tinuvin<sup>®</sup> XT 200

## High performance light stabilizer system

Characterization	Tinuvin XT 200 is a novel high performance light stabilizer system based on high molecular weight hindered amine NOR™ light stabilizer. It is an excellent UV/thermal stabilizer and is particularly well suited for agricultural film applications, such as greenhouse and mulch films.		
Chemical name	Hindered amine light stabilizer		
Applications	Tinuvin XT 200 areas of applications include polyolefin (PP, PE) as well as polyolefin copolymers, such as EVA and EBA.		
Features/benefits	Tinuvin XT 200 is designed to provide stabilization to agricultural films even in presence of high amount of agro-chemicals such as pesticides, insecti- cides or soil disinfection agents. It shows outstanding performance also as long-term stabilizer; this behaviour is especially useful where films are in contact with greenhouse frames (wood, iron, aluminium).		
Product forms	Code: Appearance:		Tinuvin XT 200 FF white to off-white granules
Guidelines for use	UV stabilization of greenhouse films UV stabilization of mulch films Combined with UV absorbers (e.g. Tinur mixtures.		0.2-2% 0.2-2%
			<i>v</i> in 326) it may give rise to synergistic
Physical properties	Melting range Density (20 °C)	softening range 100–130 °C (capillary visual) 1.05 g/m <sup>3</sup> (DIN EN ISO 787-10 Method B –VDF: Methanol) 450–520 g/l	
	Bulk density		
	<b>Solubility (20 – 25 °C)</b> Dichloromethane Ethyl acetate Tetrahydrofurane Toluene Water n-Hexane n-Octanol	% w/w 25 -35 10-20 35-45 35-45 <1 <1 <1	

	<b>Volatility</b> Weight loss (% w/w)	<b>Pure substance; TGA-data, heating rate 10 °C/min in air</b> Temperature °C		
	0.2 0.3 0.8 1.8	200 225 250 275		
Handling & Safety	Tinuvin XT 200 requires no special safety measures, provided the usual precautions for handling chemicals are observed. Avoid dust formation and ignition sources.			
	For more detailed informa	tion please refer to the material safety data sheet.		
Important notes	<ol> <li>Use of Tivunin XT 200 light stabilizer in combination with flame retardants may constitute infringement of Australian Patent No. 735643 or/and US Patent No. 5,393,812 and of any existing equivalent patents or any patents granted on equivalent patent applications in other countries.</li> </ol>			
	taining Tivunin XT 200 c absence of light. This ef significantly affecting the	e aware that the presence of BHT antioxidant in plastic articles cor ivunin XT 200 can give rise to discoloration if the article is stored in of light. This effect normally disappears upon UV exposure withour htly affecting the light stabilization properties of Tivunin XT 200. Ant like Irganox <sup>®</sup> 1010 and Irganox 1076 do not give rise to such effect al conditions.		
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 contrac- tual 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.			

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