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Tinuvin® XT 55

High performance light stabilizer

Characterization

Tinuvin XT 55 is a high performance light stabilizer, which imparts outstanding weatherability to polyolefins. The main advantage of Tinuvin XT 55 is its well-balanced property profile combining light and thermal stability with improved processing behaviour, especially reduced water carry over during the production of tapes and monofilaments.

Chemical name

Hindered amine derivate

CAS number

Preparation

Applications

Tinuvin XT 55 is a highly effective light stabilizer for polyolefins and other plastics. It protects polymers from UV radiation and preserves the original appearance and physical integrity during weathering.

Its excellent compatibility with polyolefins provides additional benefits such as low water carry over in production of monofilaments and tapes with water quenching technology, maintaining or even increasing throughput.

Tinuvin XT 55 features powerful long-term thermal stabilization performance in polyolefin substrates.

Other applications include polyolefin films, sheets, membranes and moulded products.

Product forms

Code	Tinuvin XT 55 FB
Appearance	white to off-white pellets
Bulk density	0.5525 g/ml

Guidelines for use

The recommended concentrations range between 0.05 % and 1.5 %, depending on the substrate and the performance requirements of the final application.

Typically used concentrations to fulfil requirements in high demanding monofilament applications are e.g. 0.5 – 1.2 % for artificial turf and 0.3 – 1 % for bale and shade nets.

The product can be used alone or in combination with other additives such as Chimassorb® and Tinuvin light stabilizers, Irganox® antioxidants, Irgafos® and Irgastab® FS process stabilizers, Flamestab® NOR™ flame retardants, other functional additives and pigments.

Physical properties

Melting range	approx. 50 °C (start)
Volatility	Pure substance; TGA-data, heating rate 20°C/min in air
Weight Loss (%)	Temperature °C
0.5	200
0.6	225
0.9	250
1.8	275
4.3	300

Handling & Safety

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

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