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Tinuvin® XT 855

High performance light stabilizer system

Characterization

Tinuvin XT 855 is a high performance, non-interacting light stabilizer system which imparts outstanding weatherability to polyolefin based compounds, even in presence of acidic species. Tinuvin XT 855 also contributes significantly to the long-term thermal stability of polyolefins based compounds.

Chemical name

System based on hindered amine derivatives

CAS number

Preparation

Applications

Tinuvin XT 855 is a highly effective non-interacting light stabilizer system for polyolefin based compounds and other plastics. Its use is especially recommended for the stabilization of blends of polypropylene with elastomers (TPO), especially for paintable automotive applications. Other applications include molded-in-color TPO, TPE, TPV, and polypropylene.

Use of Tinuvin XT system in combination with flame retardants constitutes infringement of Dutch Patent No. 1014414 and of any patent on equivalent patent applications.

Features/benefits

Tinuvin XT 855 features powerful light and long-term thermal stabilization performance in polyolefin substrates. As it is non-interacting with acidic species, it avoids paint adhesion issues with acid-cured 1-component automotive coatings, very important for partially painted applications, and prevents mold deposits related to acidic interactions. Furthermore, it allows combinations with Irganox® PS 800 or Irganox PS 802 to enhance long-term thermal stability. Its excellent compatibility with polyolefins provides additional benefits such as good resistance to fogging in automotive interior applications.

Product forms

Code: Tinuvin XT 855 FF
Appearance: white to off-white granules

Guidelines for use

The use levels of Tinuvin XT 855 range between 0.05 and 0.8 %, depending on the substrate and the performance requirements of the final application. The product can be used alone or in combination with other additives such as Tinuvin UV absorbers, Irganox antioxidants, Irgafos® and Irgastab® FS processing stabilizers, and other functional stabilizers and additives.

Physical properties

Melting range	50–190 °C
Bulk density	465 g/l

Volatility

Weight loss (%)	
1.0	
5.0	
10.0	

TGA, heating rate 20 °C/min in air

Temperature °C	
208	
244	
261	

Handling & Safety

In accordance with good industrial practice, handle with care and avoid unnecessary personal contact. Avoid continuous or repetitive breathing of dust. Use only with adequate ventilation. Avoid dust formation and ignition sources.

Note

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