



TECHNICAL DATASHEET

PRODUCT NAME – Anti UV Masterbatch

PRODUCT CODE – HITECH-UV-6331-L

PRODUCT DESCRIPTION

UV attack by sunlight can be ameliorated or prevented by adding anti-UV polymer stabilizers, usually prior to shaping the product by injection moulding. UV stabilizers in plastics usually act by absorbing the UV radiation preferentially, and dissipating the energy as low-level heat. The chemicals used are similar to those in sunscreen products, which protect skin from UV attack. The effects of UV degradation on materials that require a long service life can be measured with accelerated exposure tests. With modern solar concentrator technologies, it is possible to simulate 63 years of natural UV radiation exposure on a test device in a single year.

HiTech UV is a synergistic mixture of additives. It is a versatile light stabilizer with good extraction resistance, low gas fading and low pigment interaction. It is particularly well suited for LDPE, LLDPE, HDPE films, tapes and thick sections and for PP films and cables and wires. It is used in cables, wires, tarpaulins, shrink films, greenhouse films, polycarbonate sheets, UV stabilizers prevent this damage and will also impede chalking. These functional additives can either reflect or absorb UV light before it can begin polymer degradation and fade the product's color. UV absorbers which will absorb the light and dissipate its energy.

FEATURES

- Reduced UV disintegration
- Easy to extrude in all types of pe, pp films, cable, wire and pipes
- Suitable for all outdoor applications
- Effective at low addition levels (3-8%)

- Human safe, Ecologically safe
- Compatible with respective polymers

APPLICATIONS

The Areas of application include polyolefins (PP, PE), olefin copolymers such as EVA as well as blends of polypropylene with elastomers, and PA in which this can be used. It is a versatile light stabilizer for thin and thick sections and delivers excellent cost/performance benefits. For applications requiring indirect food approvals, HITECH UV 6331 can be used at levels not possible with other conventional HALS.

The synergism between the two high molecular weight HALS components of HITECH UV 6331 helps to provide an efficient stabilization to the polymer against degradation through UV radiation and long term heat exposure.

TECHNICAL SPECIFICATION

Properties	Value
Composition	
EVA or LDPE	75-80%
Hi Tech Additive A	20%
Hi Tech Additive B	<5%
Physical State	Pellets
Colour	White to off white
Active Content	20-25%
Melting Temperature	~ 120 C
Decomposition Temperature:	~ 290C
Application	UV stabilization of HDPE, LLDPE, 0.5-4% Tapes: PP and HDPE 0.5 – 4% Fibers: UV stabilization of PP 0.5 – 7% Cables: UV stabilization of PVC EVA – 3-5%
Grades	6331 – E (Eva Based)

USA - 14310 Gannet St , La Mirada, California
 India – 18 Sec 6 Manesar, Gurgaon, India
 Germany - Schlosserstrasse 13, Lindlar, Germany 51789
 Italy - Via dell' Artigianato, 15, Provincia di Modena





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Available	6331 – L (LDPE Based)
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USAGE

It is a ready to use and since every application is unique it is recommended for the users to determine the applicable usage rate based on their requirements.

DISPOSAL

Recommendation: Do not allow product to reach sewage system.
Disposal of product or waste must comply with official local regulations.
Packaging that cannot be recycled must be disposed in the same manner as the product.

SAFETY INFORMATION

- Keep Out Of Reach Of Children
- Keep Container Tightly Closed
- Not For Internal Consumption
- Consult Material Safety Data Sheet For More Information

DECLARATION

This Data sheet and information it contains is considered to be accurate at the date of printing. No representation or warranty, expressed or implied is made as to the accuracy or completeness of the data and information contained in this publication. It is the User's obligation to evaluate and use products safely and within the scope advised in the data sheet and to comply with all applicable laws and regulations.

LIMITED WARRANTY

All statements, technical information and recommendations contained herein are based on validations and tests conducted by HI TECH INTERNATIONAL or its partners and are believed to be reliable, but the accuracy or completeness thereof is not guaranteed. We warrant our products will be free from defects when shipped to customer. Our obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Hi Tech International or its partners or agent of the claimed defect within 1 month after shipment of product to customer. Customer shall pay all freight charges for replacement products. We shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products. And any financial claims shall be limited to the value of the film sold.

Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith. No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of the company. The foregoing warranty is exclusive and in lieu of all other warranties, express, implied or statutory, including without limitation any implied warranty of merchantability or of fitness for a particular purpose. In no case shall HI TECH INTERNATIONAL be liable for incidental or consequential damages.

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Spain Sri Lanka Sweden Switzerland Taiwan Thailand Tunisia
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East & North Africa) United Kingdom United States Uruguay
Vietnam

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