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UV Stabilizers Market Assessment, By Type [UV Absorbers, HALS, Quenchers], By Application [Composite Roofing Tiles, Plastic Shingles, Siding, Polymers and geomembranes, TPO roofing, Others], By End-Use Industry [Packaging, Construction, Automotive, Agriculture, Others], By Region, Opportunities and Forecast, 2017-2031F

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Abstracts

Global UV Stabilizers Market size was valued at USD 1.51 billion in 2023, expected to reach USD 2.41 billion in 2031 with a CAGR of 6.01% for the forecasted period between 2024 and 2031.

UV stabilizers offer significant benefits by preventing degradation and damage caused by UV radiation, such as color fading, loss of physical properties, and reduced durability in various materials. These stabilizers are essential for product protection in industries like construction, packaging, and agriculture. The market's expansion is also attributed to the rising demand for UV-stabilized products across various industries, thereby indicating a shift towards organic stabilizers and the emergence of advanced UV protection.

In the construction industry, UV stabilizers are used to prevent microcrack formation and maintain color and gloss retention in products such as TPO roofing, solar shingles, polyolefin roofing tiles, and polymer siding. UV stabilizers work by absorbing, reflecting, or scattering UV radiation and preventing photo-oxidation, which can cause materials to become brittle and crumble apart. By extending the lifespan and maintaining the integrity of materials, UV stabilizers can improve the durability and resistance of products to the effects of UV exposure.

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For example, in July 2022, Solvay launched an innovative, novel portfolio of UV-C stabilizers, which are expected to protect polyolefin surfaces against degradation and discoloration caused by UV-C irradiation. The new proprietary stabilization technology represented an important milestone for the polyolefin industry, considering the risk of polyolefin discoloration, degradation, and micro-crack formation caused by frequent exposure to UV-C irradiation.

The Emergence of UV Absorbers and HALS is Driving Market Growth

UV absorbers and Hindered Amine Light Stabilizers (HALS) are driving the growth of the UV stabilizers market at an exponential rate. These additives protect the polymers from degrading due to UV radiation, extending the lifespan of plastic products and maintaining their visual appeal and structural integrity.

For example, in September 2023, BASF's plastic additives business and Noria Energy collaborated to develop a highly reliable, innovative pontoon design for floating solar systems at a lower cost. The final product utilizes BASF's extensive portfolio of light stabilizers, including UV absorbers and Hindered Amine Light Stabilizers (HALS), to protect the polymer against degradation caused by UV light exposure.

Rising Demand of Quenchers is Influencing the Market Growth Significantly

The continuous rise in the utilization of quenchers worldwide is driving the market growth extensively. To deactivate excited chemical species produced by UV radiation, excited-state quenchers transfer energy to an acceptor molecule, which in turn emits heat or fluorescent/phosphorescent emission to release the energy in a safe manner. This procedure prevents UV-induced deterioration, discoloration, and other types of damage in various materials, including textiles, polymers, and coatings.

For example, in September 2023, the Indian Institute of Technology (IIT) Kharagpur conducted thorough research on landfill leached-induced UV quenching substances. IIT Kharagpur stated that Landfill leachate contains diverse mixtures of pollutants that require appropriate treatment before discharge. However, leachate can interfere with UV disinfection performance due to the introduction of strongly UV-quenching substances. Various methods, including chemical, electrochemical, and physical treatments, are being explored to remove UV-quenching substances from landfill leachate.

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Implementation of UV Stabilizers in the Packaging Industry is Leading to Ample Opportunities

The implementation of UV stabilizers in the packaging industry has led to ample opportunities due to its significant demand to protect light-sensitive goods like food, pharmaceuticals, and cosmetics from UV radiation, which can cause discoloration and degradation. The demand is further enhanced by the rising requirement to protect products, meet consumer expectations, fulfill regulatory needs, and advance technological developments. Furthermore, the emergence of e-commerce platforms has contributed to this growth, as packaging has become essential for marketing and product protection during long-term storage, where UV stabilizers play a crucial role in maintaining product quality and effectiveness.

For example, in September 2023, Tosaf launched the UV barrier solution UV9389PE EU for thin transparent food packaging, ensuring high UV protection for packaged foods and shielding them from the harmful effects of UV radiation. This additive offered excellent UV protection for clear packaging films, efficiently protecting foods from discoloration, vitamin, and flavor loss due to the degrading effects of artificial light.

Asia-Pacific comprehensively led the UV Stabilizers Market

Asia-Pacific spearheaded the UV stabilizers market due to the extensive deployment of UV stabilizers in the commercial and industrial sectors. The region's rapid industrialization and urbanization, particularly in emerging economies like China, Korea, Japan, and India, have driven the market's growth. Additionally, the increasing demand for UV-resistant coated products in sectors such as construction, automotive, and packaging has further propelled the market in this region.

For example, on April 2023, South Korea based Songwon showcased its commitment to the industry at Chinaplas 2023 by presenting its latest high-performance solutions, including the SONGNOX® 9228 antioxidant and SONGSORB® 1164 UV absorber. These solutions suit various applications such as packaging, agriculture, building & construction, and home & personal use. The company's participation in this event demonstrated its dedication to providing innovative products that address the market's evolving needs, particularly in the context of increasing demand and the growing significance of UV stabilizers across different sectors.

Government Initiatives to Augment the Market Growth

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Government rules, regulations, and support programs can help in stabilizing the market and fostering growth, while industry players can benefit from incentives for research and development, and measures to enhance domestic and international market competitiveness. Such initiatives are vital for the resilience and sustainable development of the UV stabilizers market in the face of global challenges.

For example, in March 2023, the Indian government implicated some pivotal rules for UV stabilizers, which involved the testing samples of UV-stabilized sacks and separate samples of HDPE/PP woven sacks of each type. The aim of this approach was to recreate environmental strains in a controlled laboratory surrounding, while examining the durability of samples against a battery of tests. The goal was to ensure the effectiveness of UV stabilizers in protecting materials from the degrading effects of UV radiation, thereby promoting their use in various industries and applications.

Key Players Landscape and Outlook

Businesses have made substantial investments in UV stabilizer procedures, driving significant expansion in the sector. The market has become highly competitive, with major companies vying for dominance and investing in joint ventures, R&D projects, and partnerships to enhance their product lines and gain a competitive edge. The future of the UV stabilizers market looks promising, with substantial growth expected in the coming years due to advancements in UV absorbers and HALS.

In September 2023, UniteChem showcased its extensive portfolio of light stabilizers for plastics at Fakuma 2023, emphasizing its commitment to reliable delivery, market response, and environmental responsibility. UniteChem's portfolio includes a range of light stabilizers, such as UV absorbers and HALS, which help prevent polymer degradation caused by exposure to UV light. Apart from this, the company’s sustainability vision and environmental responsibility aligns with the increasing consumer demand for eco-friendly products within the plastics industry.

In April 2023, Clariant AG showcased its AddWorks PKG 906 Circle and AddWorks AGC 970 G stabilizers at the Chinaplas 2023 exhibition, highlighting their value in plastic applications. These stabilizers offered improved safety, performance, and a lower carbon footprint, contributing to a better future for plastics. The company's versatile additive solutions, including flame retardants and wax additives, aimed to enhance functionality and durability in various plastic products, thereby addressing the industry's evolving needs and sustainability goals.

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*Companies mentioned above DO NOT hold any order as per market share and can be changed as per information available during research work.

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