The FilamentFactory introduces 710 UV, a new product line with permanently UV-stabilized polyester high-strength multifilament yarns. The outstanding UV properties are achieved by addition of a tailor-made masterbatch during the extrusion process. The additive is physically-mechanically bonded to the polymer and is therefore inherent.

**Protection**

Very high level of UV-protection with permanent UV-stabilisation.

**Strength**

Having performed multiple exposure tests according to PV1303 / DIN 75202 / ISO 105-B06 results clearly show that the new 710 UV PET multifilament yarns, after the same exposure time, have 120% more residual strength than the standard polyester high-strength multifilament yarn without the UV stabilizer. The weathering simulation tests according to DIN/EN ISO 4892 make the differences even clearer: 60% higher residual strength compared to non UV-stabilized PET yarn.

**Flexibility**

The properties of the new functional high-performance multifilaments are clearly superior to the current UV-stabilized filament yarns. Strengths of 60 cN/tex at an elongation at break of 20.0% and free shrinkage values (180°C; 15min) of 1.3% can be achieved, making it possible to manufacture textiles with special properties. In addition, individual customer demands can be tailor-made.

**Unique molecular structure**

Significantly lower strength loss than conventional UV-stabilized polyester yarns.

**Inherent protection**

UV Performance does not degrade over time.

**Applications**

Textile architecture, tents, silos, tarpaulins, aerospace, automotive, outdoor/indoor sun protection

**High-quality**

2-step product made in Germany. Properties such as tenacity, elongation and shrinkage are extremely constant.

**Full denier rage into full titer range**

74 dtex up to 6600 dtex.

**High Tenacity**

Up to 65 cN/tex.

**Flexibility**

Titer, tenacity, HAS% can be optimized.
Shown values are the result of both internal and external research on our products. Any information provided by The FilamentFactory does not release the user from the obligation of performing its own analysis to determine the suitability of the product for the intended process or final application.