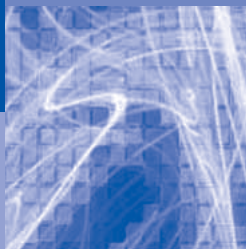


TWD *Fibres*

UV-RESISTANT AND DURABLE

**DIOLEN<sup>®</sup>**  
UV-RESISTANT

OUTDOOR MATERIALS  
UV-RESISTANT AND PRODUCED TO LAST





**Colourful:**  
Diolen® UV-resistant can also be dyed with highly UV-resistant dye stuffs.

## UV-RESISTANT OUTDOOR TEXTILES

DURABILITY THANKS TO DIOLEN® UV-RESISTANT

Diolen® UV-resistant from TWD Fibres is a highly UV-stabilised polyester filament yarn that has very good dyeing properties and is easy to process. In comparison to dope dyed acrylic yarns, Diolen® UV-resistant can be cost-efficiently package dyed in any colour.

With Diolen® UV-resistant you can produce durable textiles for a wide variety of outdoor applications. Diolen® UV-resistant is machine-washable. Its UV protection is permanent and does not wash out – making it the ideal yarn for modern, high-quality and customer-friendly outdoor textiles.

**Customer-friendly:**  
Diolen® UV-resistant provides additional benefits through its longer durability and easy handling.



## FIVE TIMES LONGER TEAR-PROOF

THIS IS HOW DIOLEN® UV-RESISTANT WORKS

Sunlight causes polyester yarns to lose their strength and elasticity. This loss is reduced to a minimum by the stabiliser used in Diolen® UV-resistant.

The active substance, which has a highly stabilising effect with regard to UV, is embedded in the spinning compound during production of the yarn, making the protection extremely wash-resistant.

Diolen® UV-resistant prolongs the life of polyester filament yarns by approximately a factor of 5.



## SUNNY PROSPECTS

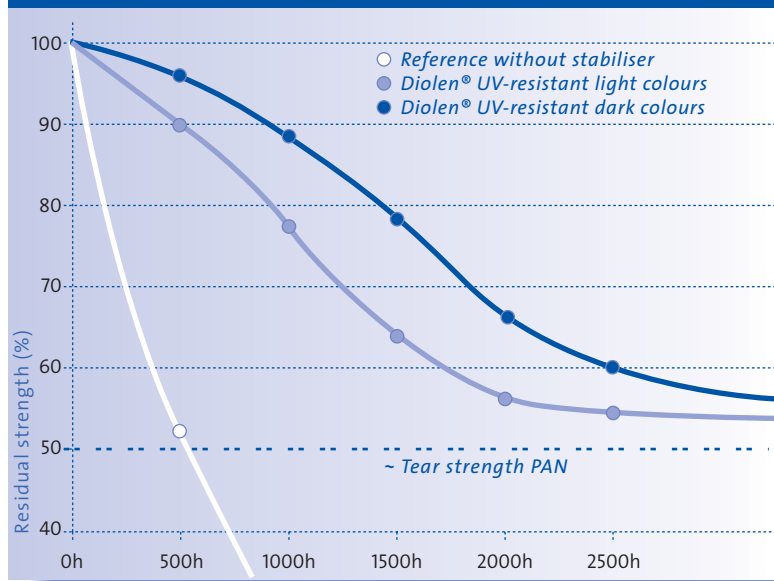
### APPLICATIONS AND POSSIBILITIES

The combination of high durability, uncomplicated processing and simple dyeing makes Diolen® UV-resistant the ideal fibre for outdoor textiles.

Its outstanding properties lend themselves to sunblinds, awnings, outdoor furniture covers, tarpaulins and tents as well as numerous other areas of application.

Fabrics made of Diolen® UV-resistant are much thinner and lighter than acrylic fabrics but just as strong. It is thus possible to produce outdoor materials with significant weight and volume advantages.

Diolen® UV-resistant in comparison with standard PES  
Mechanical test (weathered according to DIN EN 105 B04)



**Ready for action:**  
Diolen® UV-resistant is the ideal fibre for outdoor equipment that has to withstand tough conditions.



**Durable:**  
Diolen® UV-resistant  
prolongs the life of the  
fabric approximately  
fivefold

## VERSATILE, HIGH QUALITY

### THE PROPERTIES OF THE PRODUCT

Diolen® UV-resistant is a highly UV-stabilised polyester filament yarn for the manufacture of durable woven and knitted fabrics for outdoor applications.

Diolen® UV-resistant is available as twisted or intermingled yarn.

We can offer you Diolen® UV-resistant in yarn counts ranging from 50 dtex to 334 dtex.

## CERTIFICATIONS

### PROVEN QUALITY STANDARDS

Diolen® UV-resistant is Oeko-Tex Standard 100 certified.

TWD Fibres GmbH's integrated quality management system is certified to ISO 9001 – 2000.

TWD Fibres GmbH's environmental management has been validated through an ISO 14001 Oeco Audit.

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