

# ***Spectral measurement textiles***

## **Objective**

The aim of test is to characterize textiles and similar materials. The results provide information on transmittance, reflectance and absorbance of the samples at the wavelengths of 250 to 2500 nm (UV, VIS, IR).



## **Your benefit as customer**

- Characterization of the product
- Product optimization while development
- Surveillance of compliance of customers' specifications
- Consumer and user safety
- Reduced number of complaints due to proven quality

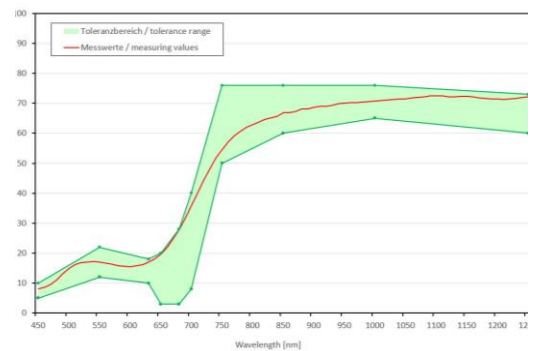
## **The tests are qualified for**

- Clothing textiles
- Awnings, curtains, shading textiles
- Welder's protection clothing
- Military service textiles
- Other military textiles/camouflage prints
- Textiles with small sized colouring
- Packaging materials
- Foils and films
- Coatings and varnishes
- Geotextiles
- Other technical textiles
- Flat plastics

## Description

Transmission, reflection and/or absorption spectra are measured by means of spectrophotometric tests. Fluorescence can also be considered. The corresponding characteristics can be calculated or determined on base of these defined spectra.

- Determination of the total luminous transmittance and the shading grade acc. to DIN EN ISO 13468-2 mod.
- Determination of luminous and solar characteristics acc. to DIN EN 410 mod.
- Determination of IR-remission acc. to DIN 5033-7 and DIN 5036-3
- Determination of concentration of UV absorbers



## Requirements for test samples

### In general:

The testing can be carried out in new und pre-treated condition (e. g. household or industrial laundry, weathering, thermal pretreatment). Please let us know your desired conditions.

### Amount of material:

For testing in new condition: at least 20 cm x 30 cm (approx. DIN A4) each material and colour

### Duration of testing:

10 working days after receipt of order and samples