

# PRÜFSTELLE TEXTIL



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TEXTIL  
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Von der Federation Internationale de L'Automobile (FIA) Paris zugelassene Stelle zur Prüfung von hitze- und flammresistenter Schutzkleidung für Auto-Rennfahrer gemäß Standard FIA 8856-2000

## UNTERSUCHUNGSBERICHT | TESTREPORT

**Order number STFI:** 20142366

**Report date:** 2014-11-10  
**Person responsible:** Mehlhorn

**Orderer:** DELIUS GmbH  
Frau Angelika Schmidt-Koch  
Goldstraße 16-18  
33602 Bielefeld

**Test order:**

**Date:** 2014-11-04  
**Order received:** 2014-11-04  
**Material received:** 2014-11-06

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### Material to analyse:

1 samples sun protective material

signed by orderer	color	code for order processing
Glamour - DIMOUT	33046-9550	P2366_14_1

The samples had been extracted by the orderer, concerning this no information is existing in the test department

### Analysis content:

- (1) Remission and transmission in the visible light range in accordance with DIN EN 410: 2011
- (2) Remission and transmission in the global radiation range in accordance with DIN EN 410: 2011
- (3) Calculation of the total energy permeability degree  $g_t$  of window system with sun protective materials, following DIN EN 13363-1 October 2007 and approximated calculation of reduce factor  $F_c$  following DIN EN 14501 February 2006

### Conditions for optical tests:

test parameter	symbol	range of radiation
light transmission degree	$\tau_{v,B}$	380...780 nm (standard light D65)
light remission degree	$\rho_{v,B}$	380...780 nm (standard light D65)
light absorption degree	$\alpha_{v,B}$	380...780 nm
UV- transmission degree	$\tau_{UV}$	280...380 nm (UV-radiation)
solar transmission degree	$\tau_{e,B}$	280...2500 nm (global radiation)
solar remission degree	$\rho_{e,B}$	280...2500 nm (global radiation)
solar absorption degree	$\alpha_{e,B}$	280...2500 nm

Equipment: spectral photometer Lambda 900, PERKIN - ELMER Corp., USA  
150 mm sphere

**Test results:****(1) Light range****UV-range**

Code	light transmission degree	light remission degree	light absorption coefficient	UV-transmission degree
	$\tau_{v,B}$	$\rho_{v,B}$	$\alpha_{v,B}$	$\tau_{UV}$
P2366_14_1	0,0047	0,5020	0,4933	0,0030

**(2) Global radiation range**

Code	solar transmission degree	solar remission degree	solar absorption coefficient
	$\tau_{e,B}$	$\rho_{e,B}$	$\alpha_{e,B}$
P2366_14_1	0,0050	0,4933	0,5017

**(3) Total energy permeability degree  $g_t$  and reduce factor  $F_c$** 

Code	$g_t$	$F_c$
P2366_14_1	0,43	0,61

$F_c$  and  $g_t$  results are valid for the following presumptions in accordance with DIN EN 13363-1:


- Double glass with thermal protective covering, thermal permeability degree  $U = 1,6 \text{ W/m}^2\text{K}$  and total energy permeability degree  $g = 0,70$
- sun protective material inside, closed.

The results are mean values from three measurements; spectrograms are kept in the test department.

Unless otherwise agreed, all materials we received within this order will be kept for a maximum time of 6 month. Materials which are not stored because of technical or safety reasons are excluded from that

The testing period is defined as timeframe between receipt of samples and issue date of test report.

The test results are referring to the submitted samples. These test report is not allowed to copy in parts.

  
Dr. Matthias Mägel  
head of test department



  
Dipl.-Phys. Heidi Mehlhorn  
field responsible collaborator