

PRÜFSTELLE TEXTIL



SÄCHSISCHES
TEXTIL
FORSCHUNGS
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UNTERSUCHUNGSBERICHT | TESTREPORT

Order number STFI:	20140333
PO. No	
Report date:	2014-02-12
Person responsible:	Mehlhorn
Orderer:	Création Baumann AG Ms. Simone Hürzeler Bern-Zürich-Str.23 4901 Langenthal Schweiz
Test order:	
Date:	2014-02-06
Order received:	2014-02-11
Material received:	2014-02-11

Die Prüfstelle des STFI e.V. führt als kooptiertes Institut auch Prüfungen nach OEKO-TEX® Standard 100 durch.
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Vorstandsvorsitzender
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Material to analyse:

3 samples fabric

signed by orderer	code for order processing
Sport color:101	P0333_14_1
Sport color:110	P0333_14_2
Sport color:131	P0333_14_3

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 total energy permeability degree g_t of window system, following DIN EN 13363-1 2007 and approximated calculation of reduce factor F_c following DIN EN 14501 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)
UV- transmission degree	τ_{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)

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
P0333_14	$\tau_{v,B}$	$\rho_{v,B}$	$\alpha_{v,B}$	τ_{UV}
1	0,2271	0,7504	0,0225	0,1522
2	0,0063	0,0426	0,9511	0,0077
3	0,1144	0,5611	0,3245	0,0664

(2) Global radiation range

Code	solar transmission degree	solar remission degree	solar absorption coefficient
P0333_14	$\tau_{e,B}$	$\rho_{e,B}$	$\alpha_{e,B}$
1	0,2268	0,7242	0,0490
2	0,1158	0,3842	0,5000
3	0,1830	0,6417	0,1753

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

Code	g_t	F_c
P0333_14		
1	0,34	0,49
2	0,48	0,69
3	0,38	0,54

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. Heidrun Mehlhorn
field responsible collaborator