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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: 20152224

Reference orderer: no

Report date: 2015-10-19

Person responsible: Mehlhorn

Orderer: Englisch-Dekor Handelsgesellschaft
GmbH & Co.KG
Manuela Schopper
Scheydgasse 29
ÖSTERREICH

Test order:

Date: 2015-10-12

Order received: 2015-10-14

Material received: 2015-10-14

Material to analyse:

3 samples of fabric, (Serie E2627-E2652)

signed by orderer	code for order processing
E 2627	P2224_15_1
E 2634	P2224_15_2
E 2648	P2224_15_3

The sampling was supplied by the issuer. The test department is not informed about the sampling procedure.

Analysis content:

- (1) Measurement and assessment of the **dim out and black out effect** in accordance to STFI-internal test method PM 21 and classification in conformity with DIN EN 14501, February 2006

Test conditions:

A test sheet with 30cm diameter was prepared from the sample. The equipment for measuring the "illumination reduce" contents lamps to produce 0,1 Lux up to 1000 Lux (high power-LED) and otherwise 1000 Lux up to 100 000 Lux into the sample's position. The IR- radiation range, not according to sun light, had been filtered out before reaching the sample. Parallel light impinges on the sample.

Measuring area and assessment box are realised in geometric conditions with 10° angle in observing.

Measured values are given for the observer's position by lux meter, alternative to the subjective judgement.

The assessment of **light transmission regulation** (Tab. 6, p. 15, DIN EN 14501, February 2006) is defined in 2 classes:

Regulation of light transmission by fabrics	Classification of fabrics
No perception of light in testing with 1000 Lux	dim out
No perception of light in testing with 100000 Lux	blackout

Test results:**Measurement and assessment at 100 000 Lux lighting:**

Code	Illumination with sample	Perceptible result	Darkening to %	classification
P2224_15	Lux			
1	75,5	very lighting area visible	99,72	no black out
2	13,46	lighting area visible	99,95	no black out
3	0,49	a lot of stars visible	100,00	no black out

Measurement and assessment at 1000 Lux lighting:

Code	Illumination with sample	Perceptible result	Darkening to %	classification
P2224_15	Lux			
1	0,94	lighting area visible	99,79	no dim out
2	0,17	lighting area visible	99,96	no dim out
3	0,01	a lot of stars visible	100,00	no dim out

The test results are referring to the submitted samples.

The materials received within this order will be kept for a maximum time of 6 month.

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

These test report is not allowed to copy in parts.



Dr. Matthias Mägel
head of test department



Dipl.-Phys. Heidrun Mehlhorn
field responsible collaborator