Laboratory for Fire Safety

Reaction to fire test in accordance with EN_ISO_11925-2:2020 of Verosol SilverScreen 202/205

Test report

Report number YC 2174-3E-RA-001 dated 19 June 2023

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Reaction to fire test in accordance with EN_ISO_11925-2:2020 of Verosol SilverScreen 202/205

Test report

Client	Kvadrat High Performance Textiles B.V. Kiefte 18 7151 HZ Eibergen The Netherlands
Issued by	Peutz bv Lindenlaan 41 NL-6584 AC Molenhoek PO Box 66 NL-6585 ZH Mook The Netherlands
Notified body no	NB 2264
Product	**Verosol SilverScreen 202/205**
Report number	YC 2174-3E-RA-001
Date	19 June 2023
Reference	NvD/DDe//YC 2174-3E-RA-001
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1 Introduction

On behalf of Kvadrat High Performance Textiles B.V. an investigation was performed with respect to the reaction to fire properties of Verosol SilverScreen 202/205.
The investigation was performed in the Peutz Laboratory for Fire safety, Klopsteen 4a, NL-5443 PW Haps, in accordance with EN-ISO 11925-2:2020 ('Single-flame source test'), further referenced as EN-ISO 11925-2.

This report provides a description of the material tested, the method of mounting in the test apparatus, the method used and the test results.

For this type of measurements the Laboratory for Fire safety has been accredited by the Dutch "Raad voor Accreditatie" (RvA).

The RvA is member of EA MLA (**EA MLA**: **E**uropean **A**ccreditation Organisation **M**ulti**L**ateral **A**greement: http://www.european-accreditation.org).

EA: "Certificates and reports issued by bodies accredited by MLA and MRA members are considered to have the same degree of credibility, and are accepted in MLA and MRA countries."

2 Product description

2.1 General

The information in this chapter is based on information provided by the client.

The product investigated is Verosol SilverScreen 202/205, hereinafter also called 'the product'. The intended application is for use as blinds for interior application.
The materials to be tested were delivered on the date specified in table 2.1. On arrival the material was verified and marked by Peutz.
The measured values (MV) are determined outside the scope of accreditation.

2.2 Harmonised product standard

According to the client there was no harmonised European product standard published at the time the tests were conducted and this report was drawn up.

2.3 Product identification

The most important parameters for identifying the product are summarised in Tables 2.1 and 2.2.

t2.1 General information of product to be tested

Product	**Verosol SilverScreen 202/205**	
Date of delivery	3 February 2023	
Commercial name	Verosol SilverScreen 202/205	
Produced by	Kvadrat High Performance Textiles B.V. Kiefte 18 7151 HZ Eibergen The Netherlands	
Identification	batchnr.	EB01 Black (011) – B041405 EB03 Bronze (013) – B040266 ED02 Beige (032) - B041452
	date of manufacture	December 2022 – January 2023
Sampling	date	27 January
	sampling by	R. Kuipers Kvadrat High Performance Textiles B.V.

Peutz was not involved in the selection of the test specimen (or of its materials). The laboratory cannot make any declaration about the representativeness of the provided specimen and the samples made available. The results apply to the sample as received.

t2.2 Additional information of product to be tested

Product	**Verosol SilverScreen 202/205**	
	Nominal value	**Measured value**
Description	Glassfibre – Fabric of PVC with a silverscreen back	
Composition	64% PVC / 36% Glass	
Thickness	0.49 mm	0.42 mm
Surface weight	400 g/m^2	403 g/m^2
Fire retardant additive	0 % - 5 % Sb_2O_3	
Colour	EB01 Black (011) – RAL 9011	
	EB03 Bronze (013) – RAL 8014	
	ED02 Beige (032) – RAL 9001	

The values mentioned are the nominal values as given by the client, unless otherwise stated (MV, measured value).

2.4 Conditioning of test specimen

Prior to the tests, the material or the specimens were stored for 4 weeks in a climate room with the environmental conditions as specified in EN 13238:2010.

Conditioning took place from 2 February 2023 up to the test date.

2.5 Mounting of test specimen

According to the client there was no harmonised European product standard published at the time the tests were conducted and this report was drawn. The construction of the test specimens and the mounting in the test apparatus are therefore based entirely on EN-ISO 11925-2.

The test specimens were constructed by the Laboratory as described in table 2.3 below.

t2.3 Mounting of test specimen

Product	**Verosol SilverScreen 202/205**
Product standard	Not available
Substrate	No substrate used
Mounting	Mounted free hanging in specimen holder in accordance with ISO 11925-2. Coloured side was mounted towards the fire
Joints	No joints/ seams were present

3 Test results

3.1 Results of measurements

In total 36 tests were performed. For any comments and/or deviations from the standard, please refer to Chapter 3.2.
The flame application time was 30s.

There was no sign of special behaviour of the test specimen during the tests.

The environmental conditions and test results are summarised in the tables below.

t3.1 Environmental conditions immediately prior to test the test

		EB01 Black	ED02 Beige	EB03 Bronze
Test date		15/03/2023	14/03/2023	15/03/2023
Ambient temperature	[°C]	20	20 - 21	21
Relative humidity	[%]	31	40 - 43	35

t3.2 Test results EN-ISO 11925-2 SilverScreen 202/205 EB01 - Black

Silverscreen 202/205 EB01 - Black					
Specimen	**Ignition occurs Y / N**	**Max. flame height [mm]**	**t_{150} [s]**	**Afterburn time [s]**	**Ignition filter paper Y / N**
Surface flame exposure					
EB01-1	N	84	Not reached	0	N
EB01-2	N	92	Not reached	0	N
EB01-3	N	93	Not reached	0	N
EB01-4	N	98	Not reached	0	N
EB01-5	N	96	Not reached	0	N
EB01-6	N	84	Not reached	0	N
Edge flame exposure					
EB01-7	N	66	Not reached	0	N
EB01-8	N	36	Not reached	0	N
EB01-9	N	57	Not reached	0	N
EB01-10	N	72	Not reached	0	N
EB01-11	N	75	Not reached	0	N
EB01-12	N	70	Not reached	0	N
Classification parameters:			150 mm not reached within 60s		Y
			ignition of filter paper		N

t3.3 Test results EN-ISO 11925-2 SilverScreen 202/205 ED02 - Beige

Silverscreen 202/205 ED02 - Beige					
Specimen	**Ignition occurs Y / N**	**Max. flame height [mm]**	**t_{150} [s]**	**Afterburn time [s]**	**Ignition filter paper Y / N**
Surface flame exposure					
ED02-1	Y	113	Not reached	0	N
ED02-2	Y	96	Not reached	0	N
ED02-3	Y	82	Not reached	0	N
ED02-4	Y	92	Not reached	0	N
ED02-5	Y	89	Not reached	0	N
ED02-6	Y	90	Not reached	0	N
Edge flame exposure					
ED02-7	Y	90	Not reached	0	N
ED02-8	Y	61	Not reached	0	N
ED02-9	Y	88	Not reached	0	N
ED02-10	Y	67	Not reached	0	N
ED02-11	Y	90	Not reached	0	N
ED02-12	Y	92	Not reached	0	N
Classification parameters:		150 mm not reached within 60s			Y
		ignition of filter paper			N

t3.4 Test results EN-ISO 11925-2 SilverScreen 202/205 EB03 - Bronze

Silverscreen 202/205 EB03 - Bronze					
Specimen	**Ignition occurs Y / N**	**Max. flame height [mm]**	**t_{150} [s]**	**Afterburn time [s]**	**Ignition filter paper Y / N**
Surface flame exposure					
EB03-1	N	92	Not reached	0	N
EB03-2	N	76	Not reached	0	N
EB03-3	N	88	Not reached	0	N
EB03-4	N	85	Not reached	0	N
EB03-5	N	96	Not reached	0	N
EB03-6	N	89	Not reached	0	N
Edge flame exposure					
EB03-7	N	61	Not reached	0	N
EB03-8	N	68	Not reached	0	N
EB03-9	N	74	Not reached	0	N
EB03-10	N	80	Not reached	0	N
EB03-11	N	86	Not reached	0	N
EB03-12	N	86	Not reached	0	N
Classification parameters:		150 mm not reached within 60s			Y
		ignition of filter paper			N

3.2 Remarks

There were no deviations from the standard.

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4 Finally

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

Information regarding the accuracy of the method can be found in EN-ISO 11925-2, Annex A.

Mook,

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Management

This report contains 10 pages.