

Test Report

Determination of the fire index of Avalon 2/600689



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TÜV SÜD Process Safety · Mattenstrasse 24 · CH-4002 Basel · Switzerland

Sahco GmbH
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Summary:

Fire Index:

(derived result of the tests!)

Washing stability not tested

5.2

Date: July 17, 2020

Our reference: PRS-IKU

Report No. 404260-20-0340-02

This Document consists of
3 Pages.

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The examination is accomplished in accordance with: Determination of the fire index (combustibility and smoke formation) according to the "Directives for the prescriptions on the fire police, Materials and part of construction", Part B: Examination conditions, edition 1988 (with complements 1990, 1994, 1995 and 2005) of the "Vereinigung Kantonaler Feuerversicherungen" (VKF), Bundesgasse 20, Postfach 8576, CH-3001 Bern.

This test report has a validity period of 5 years.

The detailed test results are shown in the tables on page 2 and 3.

The results in this report refer exclusively to the submitted samples. The sample name as well as additional data corresponds to the information provided by the customer. A further verification was not made. Copies of the entire report are permitted, whereas excerpts as well as its use for advertising purposes requires the express written approval of TÜV SÜD Schweiz AG.

Patrick Greiner
Head of Laboratory

Christian Kubainsky
Test and Head of Laboratory

The fire index describes the properties of the tested products at effects of heat and flame under controlled laboratory conditions. From this figure no inferences about the fire behavior of the products may be derived under the conditions of a real fire. Conformity with the test specimen will not be verified by the testing institute.



egolf

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Sample:	Avalon 2/600689
<i>The sample name corresponds to the information provided by the requester. A further verification was not made.</i>	
Sample Description	Velvet fabric
According to customer:	Colour: light blue
	10 pcs. 450mm x 105mm x 1.2mm warp
	10 pcs. 450mm x 105mm x 1.2mm weft
	Measured gross density: 742 kg/m ³
	Surface density: approx. 520 g/m ²
	The material was provided by the customer
Receiving Date:	July 14, 2020

Applied Testing Procedure

SOP-No.: 241 (Determination of the hardly combustibility degree according to SN198898)

SOP-No.: 242 (Determination of the smoke formation degree)

Test set-up

The tests were carried out in the laboratory for fire -, and explosion prevention of TÜV SÜD Process Safety in Basel. The testing method is based on empirical bases. The quality of the testing method is supervised by periodic comparison attempts with other laboratories or with reference samples.

The samples were air-conditioned at room conditions till testing.

Results and evaluation

Hardly combustibility test SN 198 898

Requirements:

- Height of the flame tip ≤ 400 mm
- Afterflame time < 5 s
- Glow time ≤ 5 min
- Destroyed distance ≤ 150 mm

Classification:

- The fire index 5 is reached, if 18 of 20 samples meet all requirements.

Results: Thickness approx.0.75 mm

Test direction

Flame application (in seconds)

- Flame spread (mm)
Visual observation of the flame tip.
- Afterflame time (seconds)
- Glow time (seconds)
- Destroyed distance (mm)
- Flaming droplets?

		Lengthwise (warp)								
		15					3			
60	80	80	70	80	25	20	30	25	25	
0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	
80	100	90	90	95	30	25	30	30	30	
No										



Test direction

Flame application (in seconds)

- Flame spread (mm)
Visual observation of the flame tip.
- Afterflame time (seconds)
- Glow time (seconds)
- Destroyed distance (mm)
- Flaming droplets?

Crosswise (weft)									
15					3				
50	70	60	65	60	30	25	20	25	20
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
70	80	65	65	60	25	25	20	30	20
No									

Remarks: The material melts in the flame zone

-Fire behaviour: hardly combustible

Smoke test:

Smoke density test (*on cup*)

- Light absorption (%)
- Average
- **Smoke behaviour**

49	69	82	--	--	--
67%					
medium smoke formation					

End of experimental part: July 17, 2020