

No. AJD201106078

Date: JAN.18, 2012

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KROFTMAN STRUCTURES BV

VEEM 3 6909DZ BABBERICH

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description: PVC COATED TARPAULIN

Type/Style: SW10202F2-610/802

Composition: PVC COMPOUND & PET

Thickness: 0.46mm

End use application: TENT COVER

Test Requested:

EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements—Part 1: Classification using data from reaction to fire tests, class B.

Test Results: -- See attached sheet --

Test Period:

Sample Receiving Date : DEC.30, 2011

Test Performing Date : DEC.30, 2011 TO JAN.17, 2012

Signed for and on behalf of SGS-CSTC Co., Ltd.

Allen Zou

Technical Supervisor

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I. Test conducted

This test is conducted as per EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests. And the test methods as following:

- 1. EN 13823:2010 Reaction to fire tests for building products Building products excluding floorings exposed to the thermal attack by a single burning item.
- EN ISO 11925-2:2010 Reaction to fire tests Ignitability of building products subjected to direct impingement of flame — Part 2: Single-flame source test.

II. Details of classified product

a) Nature and end use application

The product "PVC COATED TARPAULIN" is defined as a decorative sheet. Its classification is valid for the following end use application:

"Tent cover"

b) Description

The product "PVC COATED TARPAULIN" is consists of PVC COMPOUND & PET.

Color	White
Thickness*	About 0.46mm
Mass per unit area	About 620g/m ²

^{*---}Measured by laboratory

Mounting and fixing:

The test specimens are fixed mechanically in the trolley, Champed at the top and the bottom, The test specimen are free standing at a distance of 90mm from the backing board, no joint in the long wing of the specimen.

III. Test results

Test method	Parameter	Number of tests	Results
EN 13823	FIGRA (W/s)		30.2
	LFS < edge of specimen		Yes
	THR _{600s} (MJ)	3	3.2
	SMOGRA (m²/s²)	3	12.6
	TSP _{600s} (m ²)		11.3
	Flaming particles or droplets		No

To be continued...

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Test method	Parameter	Specimen number	Results
EN ISO 11925-2 Exposure = 30 s	<i>F</i> s ≤ 150 mm	G	Yes
	Ignition of the filter paper	0	No

IV. Classification and direct field of application

This classification has been carried out in accordance with EN 13501-1:2007+A1:2009.

a) Classification

The product, "PVC COATED TARPAULIN", classification is as following,

Fire behaviour	Smoke production			Flaming droplets	
В	S	1	,	d	0

Reaction to fire classification: B-s1, d0

Remark: The classes with their corresponding fire performance are given in annex A.

b) Field of application

This classification for the submitted sample, is valid for the following end use condition:

- ---With all substrates classified A1 and A2
- ---With mechanical fixing
- ---No joint

This classification is valid for the following product parameters:

--- Characteristics are described in § II b of this test reports.

Statement: 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.

Warning:

This classification report does not represent type approval or certification of the product.

The test laboratory has, therefore, play no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.

To be continued...

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Annex A

Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products

insulatio	n products				
Class	Test method(s)		Classification criteria	Additional classification	
EN ISO 1182 ^a A1 EN ISO 1716	EN ISO 1182 ^a	and	△T≤30°C, and △m≤50%, and t _f =0(i.e. no sustained flaming)	-	
		PCS≤2.0MJ/kg ^a and PCS≤2.0MJ/kg ^{b c} and PCS≤1.4MJ/m ^{2 d} and PCS≤2.0MJ/kg ^e	-		
	EN ISO 1182 ^a or		<i>∆T</i> ≤50°C, and <i>∆m</i> ≤50%, and t _f ≤20 s	-	
A2	EN ISO 1716	and	PCS≤3.0MJ/kg a and PCS≤4.0MJ/m² b and PCS≤4.0MJ/m² d and PCS≤3.0MJ/kg e and	-	
	EN 13823		FIGRA≤120W/s and LFS <edge and<br="" of="" specimen="">THR_{600s}≤7.5MJ</edge>	Smoke production ^f and Flaming droplets/particles ^g	
В	EN 13823	and	FIGRA≤120W/s and LFS <edge and<br="" of="" specimen="">THR_{600s}≤7.5MJ</edge>	Smoke production ^f and Flaming droplets/particles ^g	
	EN ISO 11925-2 i Exposure =30s		60s 内 <i>F</i> s≤150mm	riaming droplets/particles	
С	EN 13823 and EN ISO 11925-2 i Exposure=30s		FIGRA≤250W/s and LFS <edge and<br="" of="" specimen="">THR_{600s}≤15MJ</edge>	Smoke production ^f and	
			Fs≤150mm within 60 s	Flaming droplets/particles ⁹	
D	EN 13823	and	FIGRA≤750W/s	Smoke production ^f and	
	EN ISO 11925-2 i Exposure=30s		Fs≤150mm within 60 s	Flaming droplets/particles ⁹	
Е	EN ISO 11925-2 i Exposure =15s		<i>F</i> s≤150mm within 20 s	flaming droplets/particles h	

To be continued...

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F No performance determined

^a For homogeneous products and substantial components of non-homogeneous products.

^b For any external non-substantial component of non-homogeneous products.

^c Alternatively, any external non-substantial component having a PCS \leq 2,0 MJ/m², provided that the product satisfies the following criteria of EN 13823: FIGRA \leq 20 W/s, and LFS < edge of specimen, and THR_{600s} \leq 4,0 MJ, and s1, and d0.

^d For any internal non-substantial component of non-homogeneous products.

^e For the product as a whole.

In the last phase of the development of the test procedure, modifications of the smoke measurement system have been introduced, the effect of which needs further investigation. This may result in a modification of the limit values and/or parameters for the evaluation of the smoke production.

 $s1 = SMOGRA \le 30m^2/s^2$ and $TSP_{600s} \le 50m^2$; $s2 = SMOGRA \le 180m^2/s^2$ and $TSP_{600s} \le 200m^2$; $s3 = not \, s1$ or s2

g d0 = No flaming droplets/ particles in EN 13823 within 600 s;

d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s;

d2 = not d0 or d1.

Ignition of the paper in EN ISO 11925-2 results in a d2 classification.

^h Pass = no ignition of the paper (no classification);

Fail = ignition of the paper (d2 classification).

Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.

To be continued...

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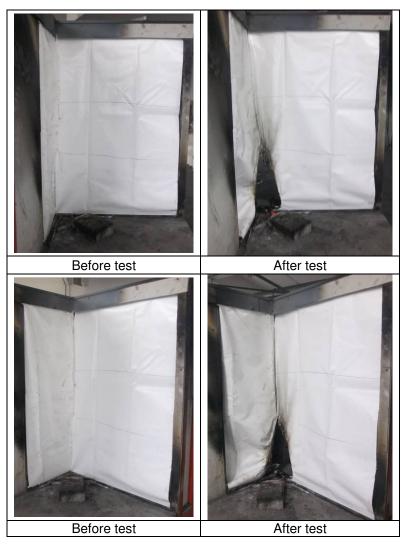


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Photo Appendix:



End of Report

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