

Kobe international BV
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Hengelo (ov), 14-8-2019

Test Specimen:	Specimen:	Colour:	Client reference number:
	A.	White-Blue	Talik FR 300cm 100% PES FR
			Thickness \pm 0.51mm
			Weight \pm 78,78 grams /m2

Examination:	Test number:	Test Name:
	1.	Orientation fire Test DIN 4102-1 B1 + B2
	2.	Graphs.

Results See following pages

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General information

Test object: Talik FR 300cm 100% PES FR
Extent of testing: reaction to fire acc. DIN 4102 part 1 paragraph 6.1
Test basis: DIN 4102-1, 1998
Principles of permission for the proof of the flame-retardance from building materials (building material class B1 according to DIN 4102) in the at present valid version.

The test results exclusively refer to the test objects. The tests took place in accordance with DIN 4102 parts 1 and 16 as well as the principles of permission for the proof of the flame-retardance from building materials (building material class B1 according to DIN 4102) in the at present valid version.

Note: This report does not replace a necessary required certification according to EU regulations.

Preparation of samples and test procedure

Testing free hanging without direct deposit.

The samples of the aforementioned test object were supplied manufactured.

Before the examination the air conditioning took place in accordance with DIN 4102 part 1 up to the constant weight in the normal climate according to DIN 50 014-50/23-2.

Test results

4.2 The Orientation test according to DIN 4102 part 1 section 6.1 Brandschachtprüfung (see table 3) has **PASS** the B1 and B2 criteria. Be aware this is not a certification test it's only an orientation test.


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Test : to 4.2 brandschachtversuche after DIN 4102 part 16 – table 3

Results test 4.2 – table 3	Values for sample A	Values for sample B	Values for sample C	Values for sample D	Values for sample E
Max. height of flame:					
Over sample lower edge cm	30				
Point in time min:s (1)	0:09				
Melt/burning through:					
Point in time min:s (1)	0:02				
Observation on sample back:	-				
Flames/glowing	-				
Point in time min:s (1)	-				
Discolouration	-				
Point in time min:s (1)	-				
Burning dripping off:	No				
Start min:s (1)	-				
Scale	-				
Sporadic dripping off	-				
Constantly dripping off	-				
Burning sloping parts:	-				
Start min:s (1)	-				
Scale	-				
Sporadic dripping off	-				
Constantly dripping off	-				
Max. duration of burning on the sieve insert min:s	-				
Impairment of the burner flame by dripping off sloping material:	No				
Point in time min:s (1)	-				
Premature attempt end:					
End of fire at the samples (1)	1:10				
Time of attempt break- off if necessary min:s	-				
Burning after end of attempt:	No				
Duration min:s	-				
Number of samples	-				
Front-side of sample	-				
Back-side of sample	-				
Length of flame cm	-				
Glowing after end of attempt:	No				
Duration min:s	-				
Number of samples	-				
Place of occurrence	-				
Lower sample half	-				
Upper sample half	-				
Front-side of sample	-				
Back-side of sample	-				
Smoke density:					
≤ 400 % x min	68,47				
≥ 400 % x min	-				

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Diagram in attachment Nr.	1				
Residual length:					
Single values cm	40,58, 33,67				
Mean value of samples cm	50				
Flue gas temperature:					
Maximum of mean value °C	125,9				
Point in time min:s	10:00				
Diagram in attachment Nr.	1				
Comments	No				

(1) time from beginning of attempt.

Evaluation

The Orientation test "Brandschachtprüfung according to DIN 4102 part 1 section 6.1.2.2 was only test on one sample in one direction. Be aware this is not a certification test it's only an orientation test.

The above value for building material described in the sections 1 and 2 is sufficient for the requirements to flame resistant building materials of the building material class B1 according to DIN 4102 part 1 edition May 1998.

The evaluation in the section 5 applies only to the building product described in the section 1 and 2 and examined applications.

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Test : Reaction To Fire Tests – Ignitability Of Building Products Subjected To Direct small flame test¹⁾ – table 1

Norm : Din 4102-1 (B2) - Small flame test

Test results

Test according to DIN 4102 part 1 section 6.2 small flame test (see table 1 to 2) The test results exclusively refer to the test objects.

Results test Length direction	Unit	Edge Flaming.						Surface Flaming.					
Date in accordance with DIN 4102 part 1													
Sample nr		1.	2.	3.	4.	5.	6.	1.	2.	3.	4.	5.	6.
Flamed goods side	A/B	A	A	A	B	B		A	B				
Ignition in (1)	s	/	1	/	/	/		1	1				
Reach the measuring mark (1)(2)	s	/	/	/	/	/		/	/				
Max. height of flame	mm	/	/	/	/	/		/	/				
Moment of max. height of flame	s	/	/	/	/	/		/	/				
Self-extinguished flames (1)	s	/	1	/	1	/		3	2				
End of the glow (1)	s	/	/	/	/	/		/	/				
Flames were extinguished after (1)	s	/	/	/	/	/		/	/				
Smoke development (visual)		VL	VL	VL	VL	VL		L	L				
Flaming drops within 20s (1)	s	/	/	/	/	/		/	/				
Comments:	The material melted max.: width 2,0cm*Length 10,5cm												

Results test Weight direction	Unit	Edge Flaming.						Surface Flaming.					
Date in accordance with DIN 4102 part 1													
Sample nr		1.	2.	3.	4.	5.	6.	1.	2.	3.	4.	5.	6.
Flamed goods side		A	A	A	B	B		A	B				
Ignition in (1)	s	/	/	/	/	/		1	1				
Reach the measuring mark (1)(2)	s	/	/	/	/	/		/	/				
Max. height of flame	mm	/	/	/	/	/		/	/				
Moment of max. height of flame	s	/	/	/	/	/		/	/				
Self-extinguished flames (1)	s	/	/	/	/	/		2	3				
End of the glow (1)	s	/	/	/	/	/		/	/				
Flames were extinguished after (1)	s	/	/	/	/	/		/	/				
Smoke development (visual)		VL	VL	VL	VL	VL		L	L				
Flaming drops within 20s (1)	s	/	/	/	/	/		/	/				
Comments:	The material melted max.: width 2,5cm*Length 10,0cm												

1) = Time from the beginning of the test

2) = Within 20 seconds.

/ = No occurrence of the event

- = Not Specified

N = No

VL = Very low

L = Low

M = Moderate

S = Strong

V = Very Strong

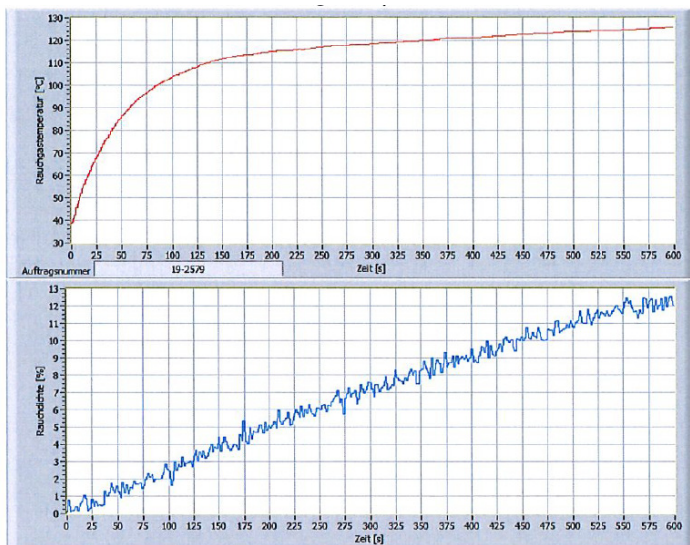
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Smoke Density



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