

5190243IB02**2019051503**

Overall Rating / Test Sonucu : **B1 sınıfı**

Report No/ Rapor No : 2019051503
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Sample ID : PVC FOAM NEO 5 mm

	TEST	METHOD	
	Fire behaviour of building materials and elements Part 1: Classification of building materials Requirements and testing		PASSED
*	Yapı malzemelerinin ve elemanların yangın davranışları Bölüm 1: Yapı malzemelerinin sınıflandırılması Gereksinimler ve testler	DIN 4102	B1



Seal

Customer Representative
Hasan KUTLULaboratory Manager
Hava Sarıaydın

Test results, methods and other information about the sample shown in the relevant pages of this Report are based on the information specified in accordance with "Test Request Form (PR03-F01)" conveyed to us from the Applicant. Test results are valid for the sample as identified above. Sample may not represent the lot which it belongs. This Report does not replace a Product Certificate. Full report or any part of it may not be reproduced or used for any other purpose without the written permission of Azolab Laboratory. Sampling has not been done by us. Unsigned and unsealed Reports are invalid. Analysis as indicated with "*" are in the Scope of our Accreditation Certificate issued from TURKAK according to TS EN ISO/IEC 17025, Analysis as indicated with "***" are performed at the external laboratories using accredited test methods according to TS EN ISO/IEC 17025 from TURKAK. Possible extra notes may add with starting N° to related pages. Tested and remaining samples will be kept in specified terms & conditions at test request and/or proposal form. Physically, chemically and microbiologically decomposed samples are discarded regardless of the storage period. Applicant can not claim any right in this regard. Results are shown in this Report do not include Measurement Uncertainty values. Measurement Uncertainty values are not taken in consideration during Pass/Fail assessment the of test results shown in this Report. Evaluation of the test results using Measurement Uncertainty values is the responsibility of the Applicant.

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Environment / Ortam

The requirements and standards apply to equipment intended for use in / Ürüne uygulanan standartlar ve şartlar aşağıdaki ortamlar için geçerlidir:

X	Residential (domestic) environment / Ev ve benzeri ortam
X	Commercial and light-industrial environment / Ticari ve hafif-endüstriyel ortam
X	Industrial environment / Endüstriyel ortam
	Medical environment / Tıbbi ortam



PR33-F01/08.10.2015/R4/17-01-17-R01

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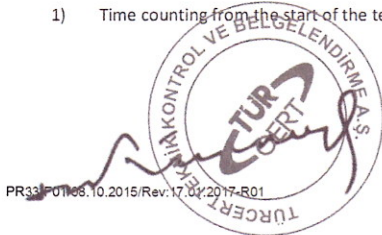
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RESULTS / SONUÇLAR

row-no.	Foil-type:	Results of the Numune test (part 1)			
		measurements test specimen			
		Numune B1			
1	<u>No. of test specimen arrangement according to DIN 4102, part 15, table 1</u>	--			
2	<u>Max. flame height above bottom edge</u> cm	3			
	Time ¹⁾ min : s	1:00			
4	<u>Melt through / burn through</u> Time ¹⁾ min : s	--			
5	<u>Observations on the backside of the specimens</u> Flames/smouldering Time ¹⁾ min : s	--			
6	Discolouration Time ¹⁾ min : s	10:00			
7	<u>Burning droplets</u> Start ¹⁾ min : s	--			
8	<u>Extent</u>	--			
9	sporadic burning droplets continually falling particles	--			
10	<u>Falling particles which burns</u> Start ¹⁾ min : s	1:02			
11	sporadic falling parts	x			
12	continually falling particles	--			
13	Duration of the burning on the screen bottom (max.) min : s	--			
14	<u>Interference of the burner flame by dripping /falling particles</u> Time ¹⁾ min : s	--			
15	<u>Early termination of the test</u> End of burning at the specimen ¹⁾ min : s	--			
16	Time of early cancellation of the test ¹⁾ min : s	--			

1) Time counting from the start of the test



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row- no.	Results of the Numune (part 2)			
	measurements test specimen			
		B1		
17	<u>Continuous burning after termination of the test</u>			
18	Duration min : s	--		
19	Number of specimens	--		
20	Front side of the specimen	--		
21	Back side of the specimen	--		
22	Flame length cm	--		
23	<u>Smouldering after termination of the test</u>			
24	Duration min : s	--		
25	Number of specimens	--		
26	<u>Location</u>			
27	Lower half of the specimens	--		
28	Upper half of the specimens	--		
29	Front side of the specimen	--		
30	Backside of the specimen	--		
31	<u>Smoke development</u>			
32	≤ 400 % x min	320		
33	> 400 % x min	--		
34	Diagram in appendix	--		
35	<u>Residual lengths</u>			
36	Single values cm	44	44	
37	Average values cm	46	44	
38	Photo of the specimen on page	45		
39		--		
40	<u>Smoke temperature</u>			
41	Maximum value of the averaged values °C	114		
42	Time ¹⁾ min : s	9:34		
43	Diagram in appendix Nr.	--		
44	<u>Remarks:</u>			
45	For the test the self-adhesive foils were glued on 0,88 mm thick steel sheets.			

Results of the B2-testing according to DIN 4102-01

(Tests with flaming the edge)

Protection of edges: none

Point of flame attack: lower edge of the front side, flaming of the foil-type organic stucco glued on a 0,00 mm thick

Specimen No.	1	2	3	4	5
(Times stated from start of test)					
Ignition (s)	--	--	--	--	--
Flame passing the limit mark (s)	--	--	--	--	--
Self extinguishment (s)	--	--	--	--	--
Max. height of the flame (cm)	0	0	0	0	0
Continuous burning after 20 s	--	--	--	--	--
Continuous smouldering after 20 s	--	--	--	--	--
Extinguishment of flames / glowing after passing the limit mark	--	--	--	--	--
Smoke development (visual observation)	not detectable				
Falling of burning particles / droplets time (s)	--	--	--	--	--

Assessment

- According to the results, the product as tested in the described arrangement also fulfils the requirements of building products according to Baustoffklasse B1. In consequence the product can be classified as

Değerlendirme

- Sonuçlara göre, açıklanan düzenlemede test edilen ürün, Baustoffklasse B1'e göre yapı ürünlerinin gereksinimlerini de karşılamaktadır. Sonuç olarak, ürün şu şekilde sınıflandırılabilir:

Baustoffklasse B1 (schwerentflammbare Baustoffe)

according to DIN 4102 part 1 (Mai 1998). This assessment is only valid, if the foils are glued on steel. The surface of the self-adhesive foils may be printed, but not be covered with paints, coatings or similar products. The resistance of the fire behaviour against climatic influences in the outside was not proofed. Therefore the product may be used as schwerentflammbar only inside of buildings or in otherwise weather protected areas.

- The material does not produce burning droplets / particles.



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DIN 4102 bölüm 1'e (Mai 1998) göre. Bu değerlendirme sadece folyolar çelik üzerine yapıştırılmışsa geçerlidir. Kendinden yapışkanlı folyoların yüzeyi basılabilir, ancak boyalar, kaplamalar veya yan ürünlerle kaplanamaz. Yangın davranışının dışarıdaki iklimsel etkilere karşı direnci kanıtlanmamıştır. Bu nedenle ürün, sadece binaların içinde veya hava koşullarına karşı korumalı alanlarda schwerentflammbar olarak kullanılabilir.

- Malzeme yanma damlacıkları / partikülleri üretmez.

Marking

The above mentioned material has to be marked as following:

- "Only schwerentflammbar (class DIN 4102-B1)"

The marking shall be done on the material, on an enclosed paper or on the packaging or, if this would be too difficult, on the delivery-note or on an enclosure to the delivery-note.

This test certificate is solely valid in combination with the original test certificate issued in German language and dated of 14.12.2018. In case of doubt, the certificate issued in German language is valid solely.

İşaretleme

Yukarıda belirtilen malzeme aşağıdaki gibi işaretlenmelidir:

- "Sadece schwerentflammbar (DIN 4102-B1 sınıfı)"

İşaretleme malzemenin üzerine, kapalı bir kağıda veya ambalajın üzerine ya da eğer bu çok zor olursa, teslimat notunda veya teslimat belgesinde bir muhafaza üzerinde yapılacaktır.

Bu test sertifikası sadece 14.12.2018 tarihli ve Alman dilinde verilen orijinal test sertifikası ile birlikte geçerlidir. Şüpheli durumda, Almanca dilinde verilen sertifika sadece geçerlidir.



Max. flue gas-temperature = 117 °C
at [min : s] 09 : 26
Smoke-development [% x min]: 320

PVC FOAM NEO

