



## TEST REPORT NR. 15351

As a basis for a general report for the building and housing inspection

Valid until 26/03/2017

### Sponsor

Alkor Draka  
75, rue Pasteur  
60140 Liancourt  
France

Date of order: 21/12/2011  
Date of sampling: 02/01/2012  
Arrival of the samples: 16/01/2012  
Date of test : 24/01/2012

### Order

"Brandschacht"-test (Building material class B1) according to DIN 4102 - Part 1 (May 1998)

### Material and Commercial name

PVC Vulcan® SCENIC 2150

### Regulations concerning the test report

DIN 4102 - Part 1 (May 1998)

### Result of the tests

The material has met the demands for non-readily ignitable building materials.

Ghent,

26 MAART 2012

I. LAMMERTYN  
Project Assistant

ir. K. CATRY  
Project Leader

The results of the tests apply only on the materials mentioned in this report

This report contains 9 pages including 4 annexes.

DIN 4102 teil 16 WG 1E\*

This document is the original version of this test report and is written in English.

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## 1. IDENTIFICATION OF THE PRODUCT

Commercial name: "Vulcan® SCENIC 2150"

Description of the material: The product is a supple PVC (Polyvinylchloride) made fire-resistant in the mass. Colour : one side white 1295, the other side black 1009.

Description of the material		
	Nominal values (*)	Measured values (**)
Thickness (mm)	0,42	0,4
Surface mass (g/m <sup>2</sup> )	605	601

(\*) based on the information of the sponsor.

(\*\*) values verified by the laboratory.

## 2. TEST RESULTS

### 2.1. "Brandschacht"-Test according to DIN 4102 Part 16

Result of the „Brandschacht“-test (part 1)				
Sample:	Measured values for the 4 samples			
	1 (black)	2 (white)	3 (white)	4 (white)
1 <u>Number of sample-classification</u> according to DIN 4102 Teil 15 Table 1	1	1	1	1
2 <u>Maximum height of flame</u> from the bottom of the sample cm	80	80	80	70
3 at time (1) min : s	00:30	00:30	00:30	00:30
4 <u>Melting through/ Burning through</u> at time (1) min : s	00:03	00:03	00:03	00:03
5 <u>Observations on the backside of the sample</u> Flames/glowing at time (1) min : s	-	-	-	-
6 Colouring at time (1) min : s	-	-	-	-
7 <u>Flaming droplets</u> Start at (1) min : s	00:15	00:15	00:15	00:15
8 Dimension : Single falling droplets	-	-	-	-
9 Continuous falling droplets	yes	yes	yes	yes
10 <u>Falling of burning particles</u> Start at (1) min : s	-	-	-	-
11 Dimension : Single falling of burning particles	-	-	-	-
12 Continuous falling of burning particles	-	-	-	-
13 Afterburning on the floor (Max) min : s	-	-	-	-
14 <u>Diminishing of the burner flame due to falling material</u> at time (1) min : s	00:20 (*)	00:20 (*)	00:20 (*)	00:20 (**)
15 <u>Early termination of test</u> Stop of flaming of the sample (1) min : s	10:00	10:00	10:00	10:00
16 Time of termination (1) min : s	10:00	10:00	10:00	10:00

- (1) Time- indication from the start of the test  
 (\*) about 10 % of the area of the burner till 10:00  
 (\*\*) about 15 % of the area of the burner till 10:00

Result of the „Brandschacht“-test (part 2)									
Sample:	Measured values for the 4 samples								
	1 (black)		2 (white)		3 (white)		4 (white)		
<u>Afterburning after the end of the test</u>									
17 Duration	min : s	-		-		-		-	
18 Number of samples		-		-		-		-	
19 Front side of the sample		-		-		-		-	
20 Back side of the sample		-		-		-		-	
21 Length of the flames	cm	-		-		-		-	
<u>Afterglowing after the end of the test</u>									
22 Duration	min : s	-		-		-		-	
23 Number of Samples	Place of occurring:	-		-		-		-	
24 Top half of the sample		-		-		-		-	
25 Bottom half of the sample		-		-		-		-	
26 Front side of the sample		-		-		-		-	
27 Back side of the sample		-		-		-		-	
<u>Smoke attenuation</u>									
28 < 400 % x min		115,25		123,60		114,40		146,20	
29 > 400 % x min		-		-		-		-	
30 Graph in Annex Nr.		1		2		3		4	
<u>Lengths at the end of the test</u>									
31 Separate values	cm	50	52	49	51	52	54	52	50
		50	51	48	50	54	54	52	53
32 Average of the separate measurements	cm	50,75		49,50		53,50		51,75	
<u>Smoke gas temperature</u>									
33 Max of the average values	°C	119,6		120,90		121,10		122,00	
34 at time (1)	min:s	9:57		0:36		10:00		9:27	
35 Graph in Annex Nr.		1		2		3		4	
36 <u>Remarks</u>									

(1) Time- indication from the start of the test

**2.2. "Kleinbrenner" – Test for B2-Classification (DIN 4102 Part 1) (Edge exposure of the test material)**

**The white side**

Test Nr.	1	2	3	4	5
Ignition (s)	2	2	2	2	2
Reaching the test-mark (s)	No	No	No	No	No
Self-extinction (s)	15	15	15	15	15
Extinguished after (s)	-	-	-	-	-
Maximum Flame height within the first 20s (cm) reached after (s)	4 10	4 10	4 10	4 10	4 10
Smoke development	Moderate	Moderate	Moderate	Moderate	Moderate
Time of flaming droplets (s)	No	No	No	No	No

**The black side**

Test Nr.	1	2	3	4	5
Ignition (s)	2	2	2	2	2
Reaching the test-mark (s)	No	No	No	No	No
Self-extinction (s)	15	15	15	15	15
Extinguished after (s)	-	-	-	-	-
Maximum Flame height within the first 20s (cm) reached after (s)	4 10	4 10	4 10	4 10	4 10
Smoke development	Moderate	Moderate	Moderate	Moderate	Moderate
Time of flaming droplets (s)	No	No	No	No	No

**3. Assessment**

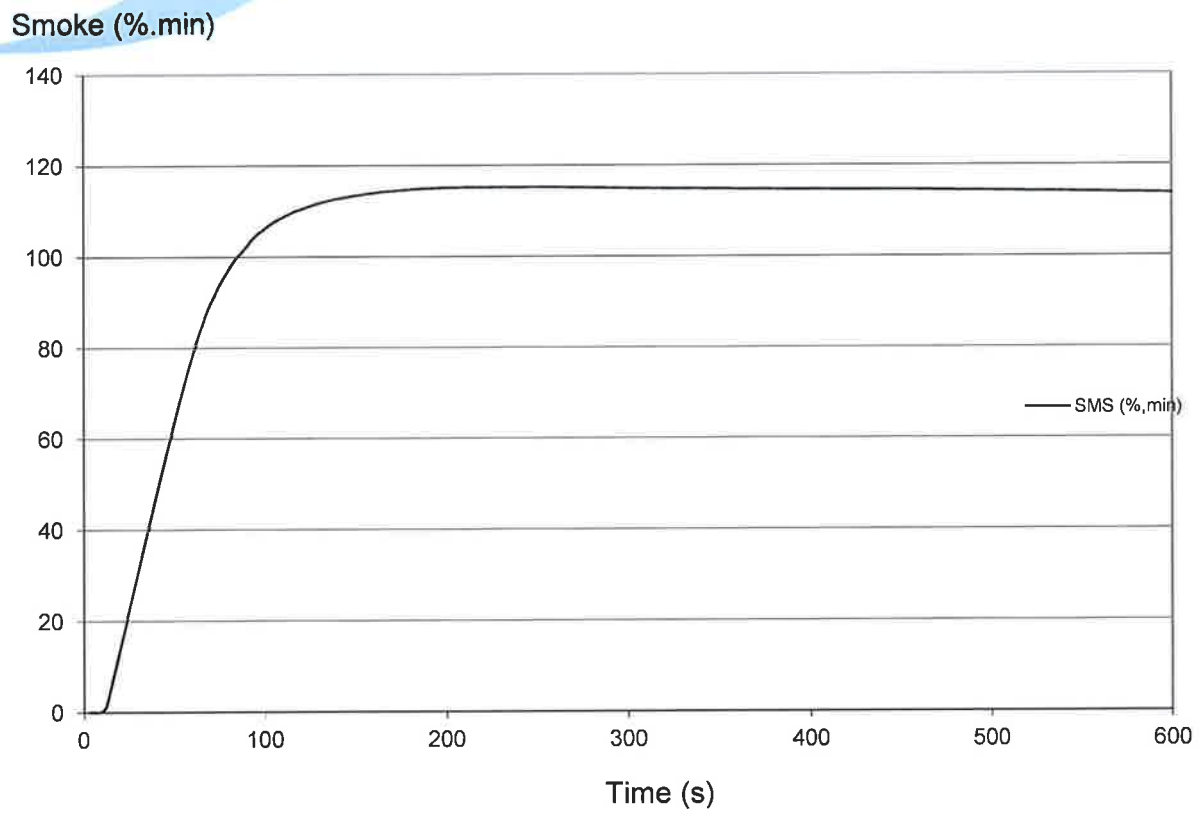
The building material, described on page 2, has complied with the requirements for non-readily ignitable building materials (schwerentflammbare Baustoffe) Class B1 according to the standard DIN 4102-1 (Edition May 1998) paragraph 6.1.2.2 and 6.2.2

**4. Special remark**

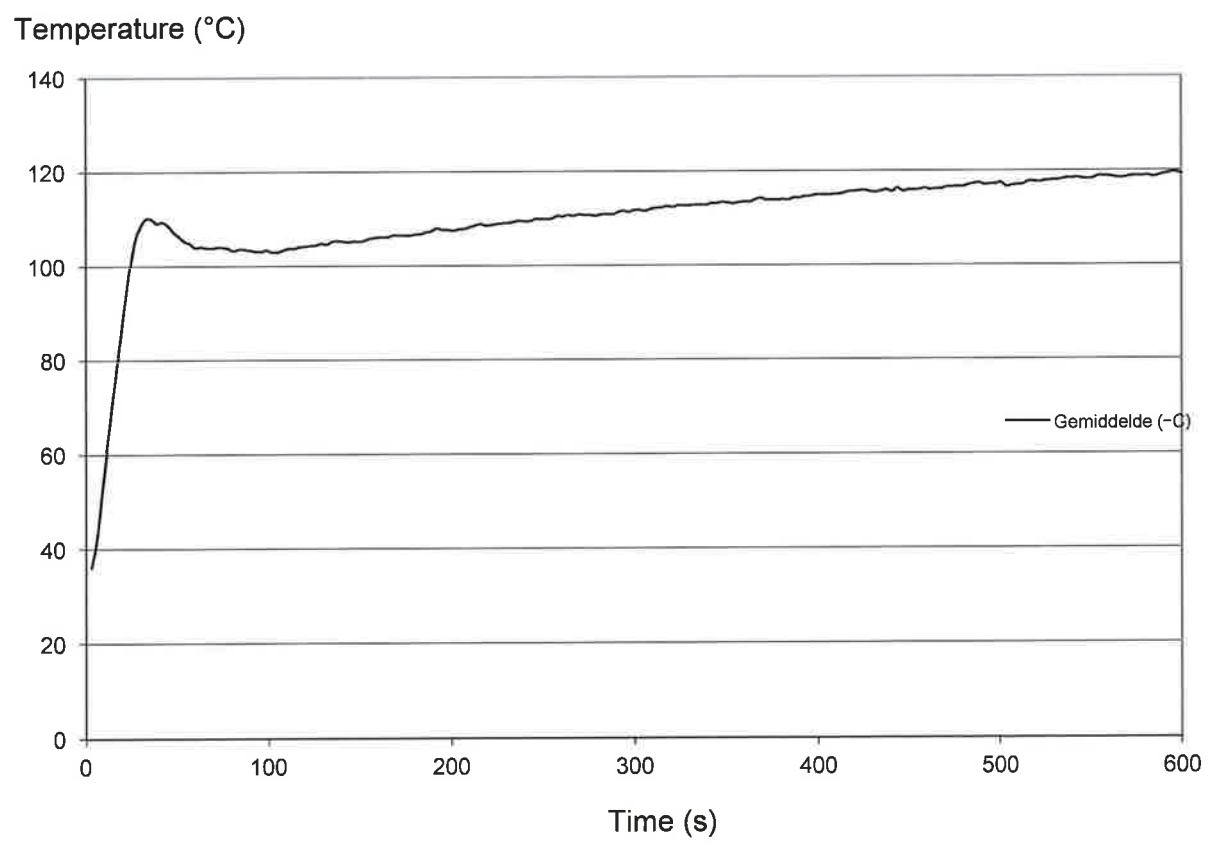
**4.1** The results of this fire test are valid only for the building product as described on page 2. In connection with other building materials its fire behaviour can be influenced unfavourably. Therefore its fire behaviour in connection with other building materials should be proven separately according to the standard DIN 4102-1.

**4.2** This test report does not replace the compulsory general approval of the building inspection. It serves as a basis for the prescribed use approval.

**Graph of Smoke Attenuation for Sample 1 (black)**

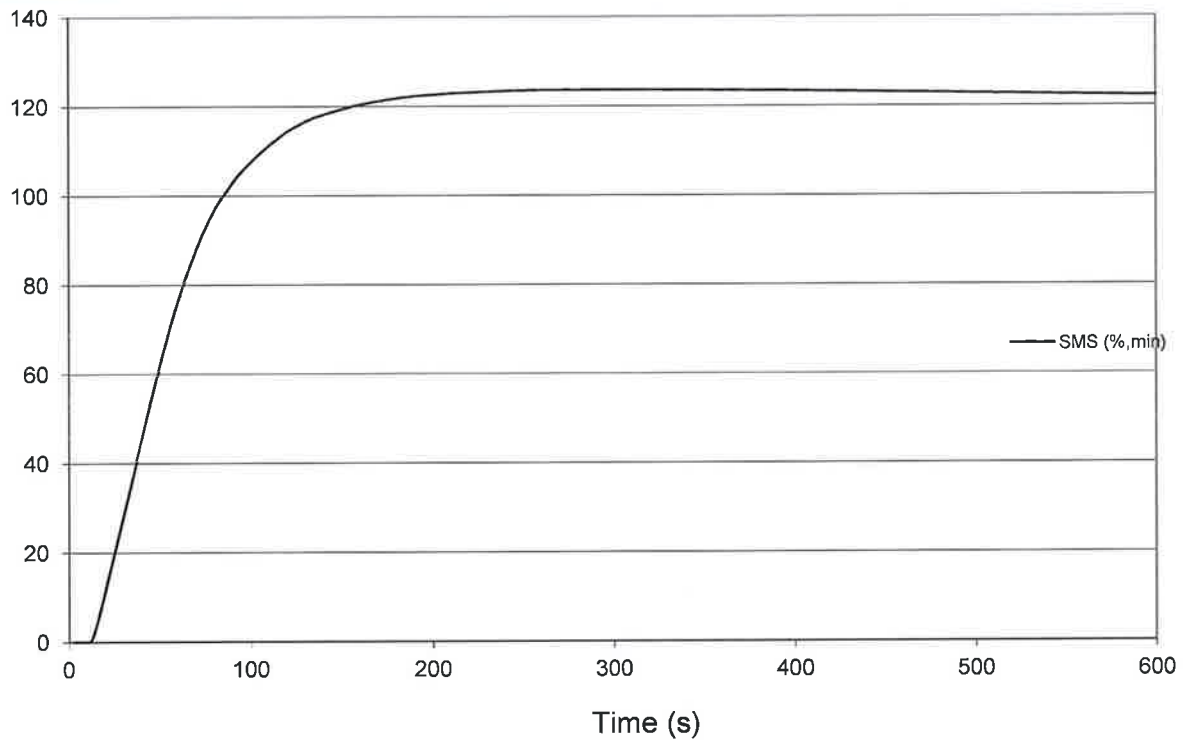


**Graph of Smoke Gas Temperature for Sample 1 (black)**



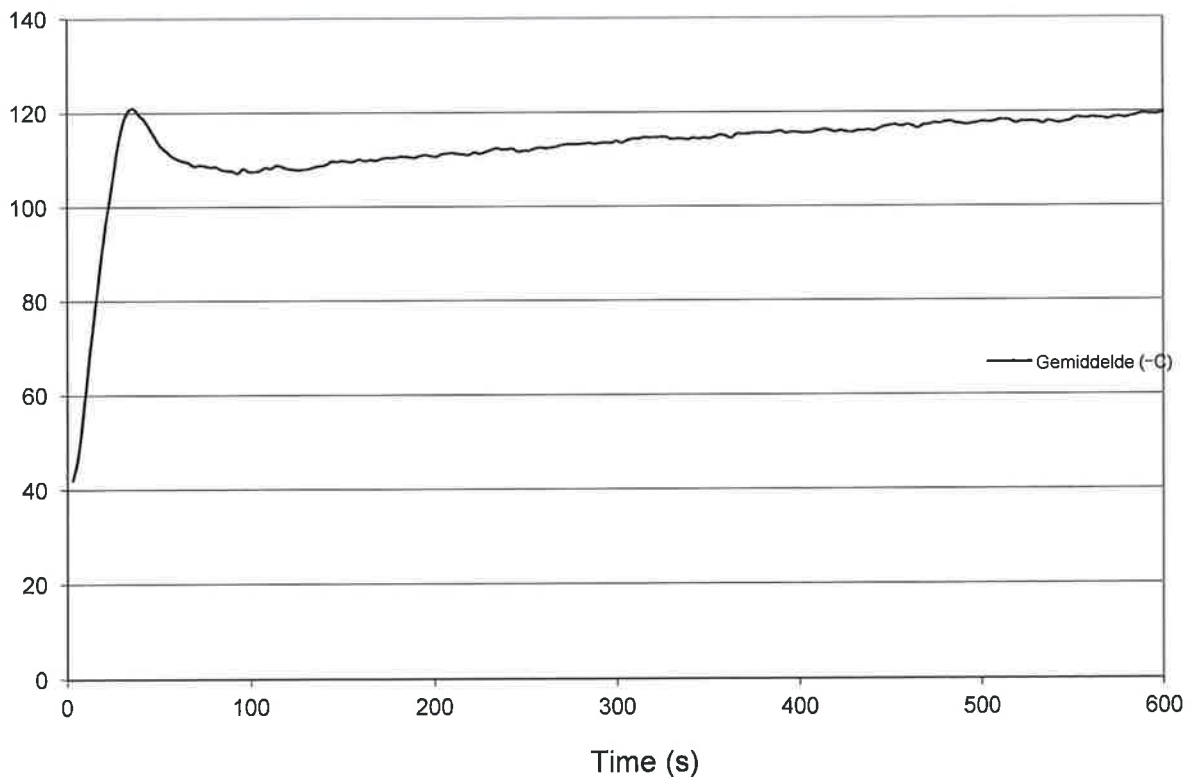
**Graph of Smoke Attenuation for Sample 2 (white)**

Smoke (%.min)



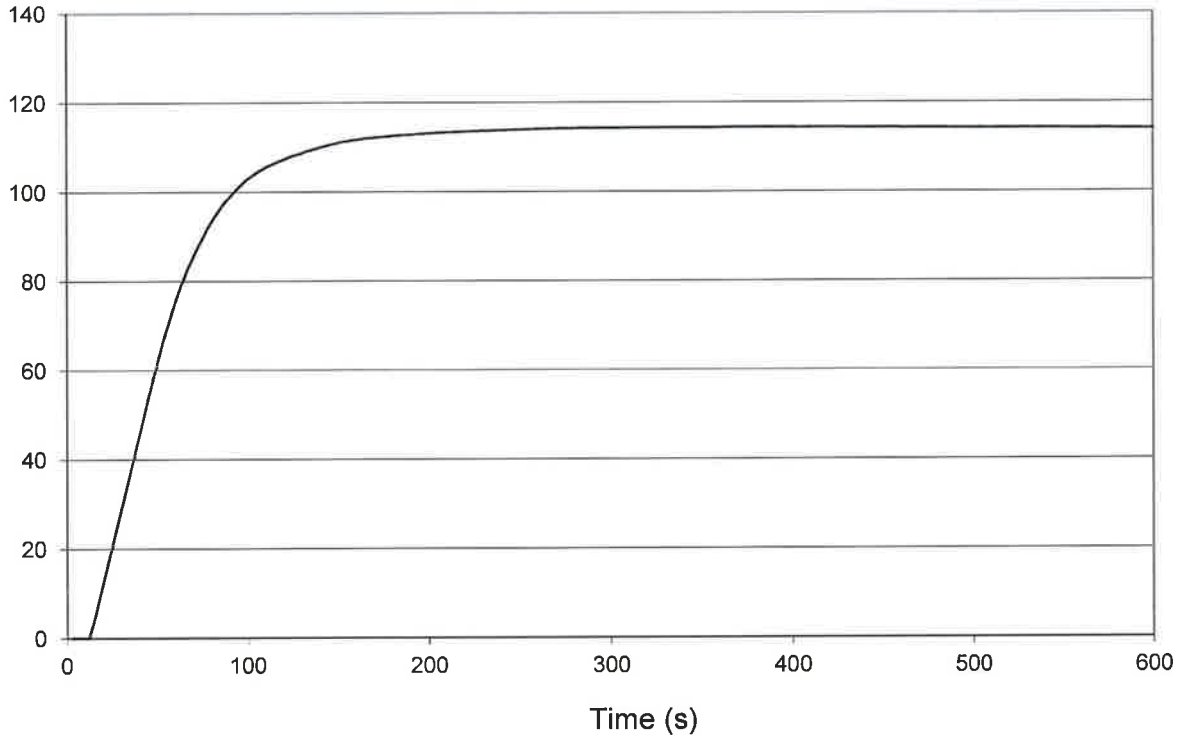
**Graph of Smoke Gas Temperature for Sample 2 (white)**

Temperature (°C)



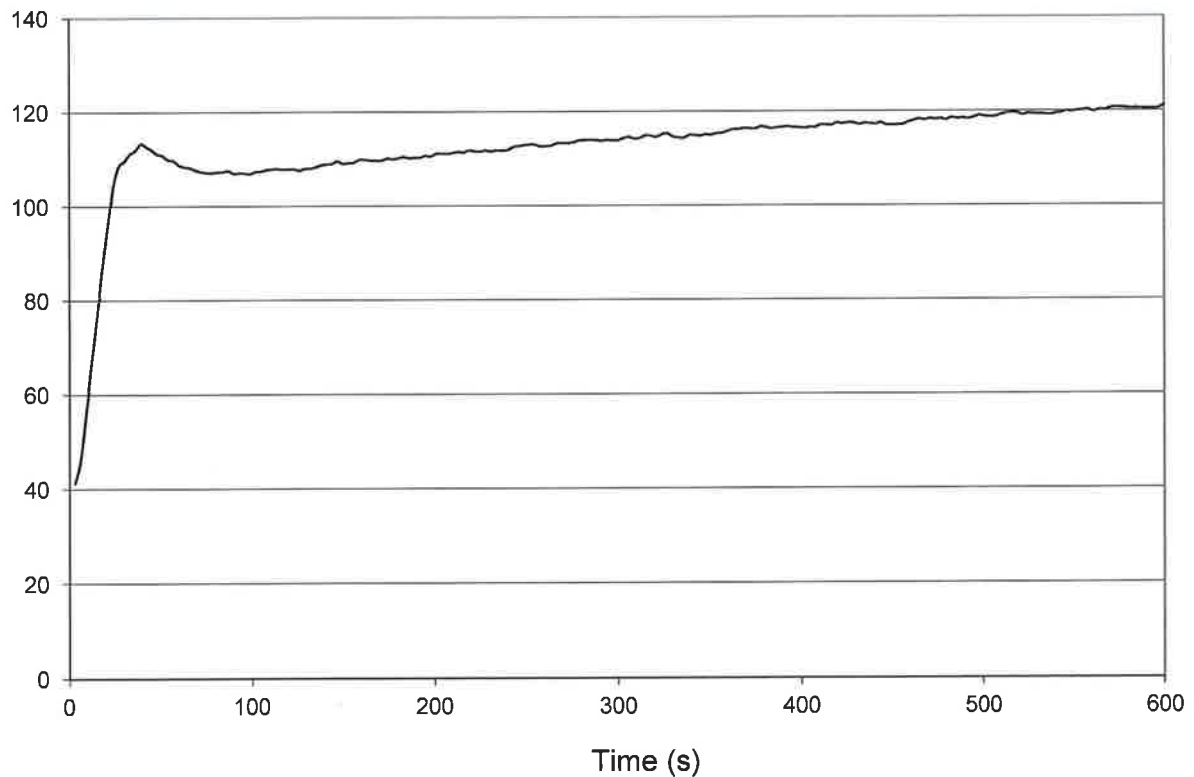
**Graph of Smoke Attenuation for Sample 3 (white)**

Smoke (%.min)



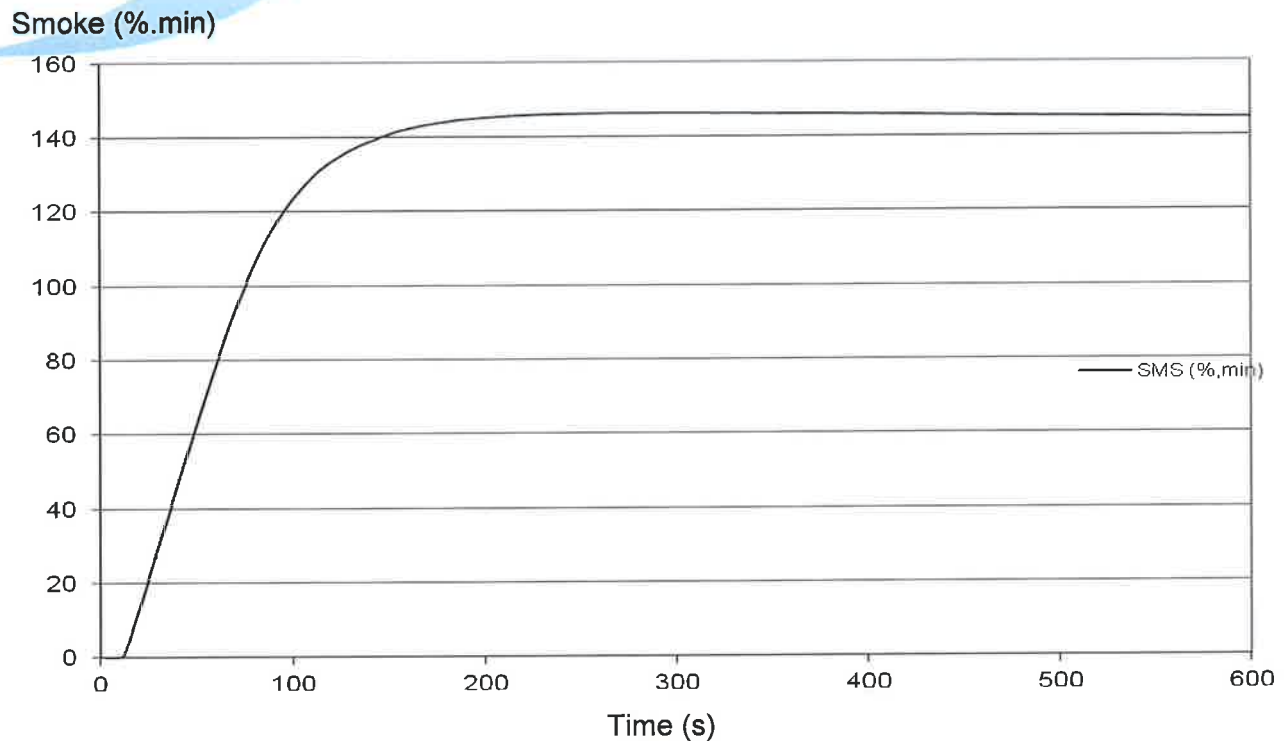
**Graph of Smoke Gas Temperature for Sample 3 (white)**

Temperature (°C)





**Graph of Smoke Attenuation for Sample 4 (white)**



**Graph of Smoke Gas Temperature for Sample 4 (white)**

