



Test report no.: <i>Testrapport nr.:</i>	89220431 002-2	Order No.: <i>Opdracht nr.:</i>	220431	Page 1 of 12 <i>Pagina 1 van 12</i>
Client Reference No.: <i>Klantreferentie nr.:</i>	N/A	Order date: <i>Opdrachtdatum:</i>	21.01.2022	
Client: <i>Klant:</i>	Unifloor B.V., Arnsbergstraat 4, 7418 EZ Deventer, The Netherlands			
Test item: <i>Testvoorwerp:</i>	Underlayment			
Identification/ Type No.: <i>Benaming / Type nr.:</i>	Jumpax Solid			
Order content: <i>Inhoud opdracht:</i>	Classification of burning behaviour			
Test specification: <i>Testomschrijving:</i>	EN 13501-1:2018 Classification of burning behaviour Test methods: Ignitability of products subjected to direct impingement of flame (EN ISO 11925-2:2020) and determination of the burning behaviour using a radiant heat source (EN ISO 9239-1:2010)			
Date of sample receipt: <i>Ontvangstdatum monster:</i>	28.01.2022			
Test sample No.: <i>Testproefstuk nr.:</i>	MT22-220431.02			
Testing period: <i>Testperiode:</i>	28.01.2022 - 28.02.2022			
Place of testing: <i>Testlocatie:</i>	Westervoortsedijk 73, 6827 AV Arnhem			
Testing laboratory: <i>Testlaboratorium:</i>	TÜV Rheinland Nederland B.V.			
Test result*: <i>Testresultaat*:</i>	See Other			
tested by: <i>getest door:</i>	<input checked="" type="checkbox"/> 	authorized by: <i>geautoriseerd door:</i>	<input checked="" type="checkbox"/> 	
Date: 20.02.2024 <i>Datum:</i>	Signed by: Michiel van de Vlekkert	Issue Date: 20.02.2024 <i>Datum uitgave:</i>	Ondertekend door: Tim Zandvliet	
Position / functie:	Engineer	Position / functie:	Expert	
Others / <i>Andere:</i>	Test result: See clause 4 on page 5. Test report 89220431 002-2 superseeds 89220431 002. Reason for amendment: change of product name.			
Condition of the test item at delivery: <i>Toestand van het test voorwerp bij ontvangst:</i>	Test item complete and undamaged			
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
* Legenda:	P(ass) = voldoet aan test omschrijving	F(ail) = voldoet niet aan test omschrijving	N/A = niet van toepassing	N/T = niet getest
<p>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</p> <p><i>Dit testrapport heeft alleen betrekking op het voorgenoemde test voorwerp. Zonder toestemming van het testcentrum mag dit testrapport niet in delen worden vermenigvuldigd. Dit keuringsrapport geeft geen recht op het dragen van enig keurmerk.</i></p>				

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Remarks
Opmerkingen

1	<p>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request. For the influence of the measuring uncertainties on the results, reference is made to the validation of the respective methods.</p> <p><i>De apparatuur welke tijdens de gespecificeerde testperiode is gebruikt, is gekalibreerd volgens ons kalibratieprogramma. De apparatuur voldoet aan de eisen welke zijn opgenomen in de relevante normen. De traceerbaarheid van de gebruikte testapparatuurs is gewaarborgd door naleving van de voorschriften in ons kwaliteitsmanagementsysteem. Gedetailleerde informatie over testomstandigheden, apparatuur en meetonzekerheid is beschikbaar in het testlaboratorium en kan op verzoek worden verstrekt. Voor de invloed van de meetonzekerheden op de resultaten wordt verwezen naar de validatie van de respectievelijke methode c.q. verrichting</i></p>
2	<p>As contractually agreed, this document has been signed digitally only. TÜV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TÜV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged.</p> <p><i>Zoals contractueel overeengekomen is dit document enkel digitaal ondertekend. TÜV Rheinland heeft niet geverifieerd en kan niet verifiëren welke wettelijke of andere vereisten van toepassing zijn op dit document. Een dergelijke verificatie valt onder de verantwoordelijkheid van de gebruiker van het document. Op verzoek van de opdrachtgever kan TÜV Rheinland de geldigheid van de digitale handtekening bevestigen door een apart document. Een dergelijk verzoek moet worden gericht aan onze verkoopafdeling. Voor een dergelijke extra service zal een milieutoeslag in rekening worden gebracht.</i></p>
3	<p>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Tests clauses marked with ^a are performed under ISO 17025 accreditation. Deviations of testing specification(s), test locations or customer requirements are listed in specific test clause in the report. This report is only to be read as a whole. No opinions or interpretation are included in this report. This test report consists of multiple pages and is only to be read as a whole. The number of pages can be seen in the header on the top right of each page, the report ends when the last page is reached. TÜV Rheinland Nederland B.V. is solely responsible for the content.</p> <p><i>Test onderdelen welke met * zijn gemarkeerd zijn uitbesteed aan gekwalificeerde onderaannemers en zijn beschreven in het respectievelijke test onderdeel van dit rapport. Test onderdelen welke met ^a zijn gemarkeerd zijn onder ISO 17025 accreditatie uitgevoerd. Afwijkingen van testspecificatie(s), testlocaties of klant eisen zijn vermeld in het van toepassing zijnde onderdeel in het rapport. Het rapport dient als geheel te worden gelezen. Er zijn geen opinies en interpretaties opgenomen binnen het rapport. Dit rapport bestaat uit meerdere pagina's en dient al geheel gelezen te worden. Het aantal pagina's is rechtsboven in de koptekst van dit rapport vermeld en eindigt wanneer de laatste pagina is bereikt. TÜV Rheinland Nederland is als enige verantwoordelijk voor de inhoud van het rapport.</i></p>
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Product description
Product omschrijving

1	Product details: <i>Product details:</i>	Product name: Jumpax Solid Test item: Underlayment Total thickness (mm): 14
2	Other: <i>Andere:</i>	Test sample(s), as well sample information, description, product details and intended usage was provided by customer.
3	Test sample obtaining: <i>Selectie van het proefstuk:</i>	<input checked="" type="checkbox"/> Sending by customer <input type="checkbox"/> Sampling by TÜV Rheinland Group <input type="checkbox"/> others:

Figure 1: Picture of the received sample (surface)



Figure 2: Picture of the received sample (back)



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Clause Deel	Requirements - Tests / Vereisten - Tests	Measuring results – Remarks Meetresultaten – Opmerkingen	Result Resultaat
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1	Construction data (indicative) of the product obtained by the testlaboratory after pre-conditioning 01-4.3-P.02-322-WI01		
	Test condition	23 ± 2°C and 50 ± 4% relative humidity	
	Pre conditioning, duration	≥ 48 h & until constant mass is achieved	
	Total thickness (mm)	14.7	
	Total mass (g/m ²)	15414	
	Density (kg/m ³)	1046	
	<p><i>Note: the determined construction data are used for determination of constant mass, the used testmethod is not in accordance with the determination of construction data according the specification standard. Therefore the testresults should be handled as indicative.</i></p>		

2	Ignitability of products subjected to direct impingement of flame EN ISO 11925-2:2020 ^a			
	Date of testing	28.02.2022		
	Pre-conditioning, climate	23 ± 2°C and 50 ± 4% relative humidity		
	Pre-conditioning, duration	≥ 48 h & until constant mass is achieved		
	Description of substrate	Fibre cement board, thickness 8 ± 2 mm, density 1800 ± 200 kg/m ³ conforming to EN 13238:2010		
	Flame application	Surface		
	Flame application time (s)	15		
	Measurement uncertainty	Caused by the destructive nature of the test and pass/fail result no measurement uncertainty can be determined. Based on the validation of the test procedure and measurement set-up there is a presumption of conformity established which is approved with ISO 17025 accreditation.		
	Requirements according EN 13501-1	See clause 5 of this report		
	Test result(s)			
	Orientation*	N/A		
	Test sample	1	2	3
	Ignition of the sample	Yes	Yes	Yes
	Flame tip reached 150 mm above the application point	No	No	No
	Duration after application when the flame tip reached the 150 mm above the application point (s)	N/A	N/A	N/A
	Extent of damaged area, length (mm)	25	25	25
	Extent of damaged area, width (mm)	12	12	12
Material melts	No	No	No	
Shrinks away from flame without being ignited	No	No	No	
After glowing	No	No	No	
Flaming droplets/particles which caused ignition of filter paper	No	No	No	
* No length or width direction applicable.				

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Clause <i>Deel</i>	Requirements - Tests / <i>Vereisten - Tests</i>	Measuring results – Remarks <i>Meetresultaten – Opmerkingen</i>	Result <i>Resultaat</i>

3	Determination of the burning behaviour using a radiant heat source EN ISO 9239-1:2010 ^a				
	Date of testing	28.02.2022			
	Pre-conditioning, climate	23 ± 2°C and 50 ± 4% relative humidity			
	Pre-conditioning, duration	≥ 48 h & until constant mass is achieved			
	Description of substrate	Fibre cement board, thickness 8 ± 2 mm, density 1800 ± 200 kg/m ³ conforming to EN 13238:2010			
	Fixing method	None, samples are tested loose laid on the substrate.			
	Measurement uncertainty	The measurement uncertainty for this test strongly depends on the products that are tested, based on that influence a measurement uncertainty for the method can't be determined. Information on the influence of the different products can be found in ISO 9239-1:2010 Annex B "Precision of the test method". Based on the validation of the test procedure and measurement set-up there is a presumption of conformity established which is approved with ISO 17025 accreditation.			
	Requirements according EN 13501-1	See clause 5 of this report			
	Test result(s)				
	Test sample	1	2	3	Mean
	Orientation*	N/A	N/A	N/A	N/A
	Flame spread (cm)	47	49	47	48
	CHF / HF-30 (kW/m ²)	4.3	4.0	4.3	4.2
Maximum light attenuation (%)	27.2	27.8	20.1	25.0	
Smoke production (%.min)	306	285	360	317	
* No length or width direction applicable. Observations: Specimen 1, 2 and 3: No flashing is observed. Specimen 1, 2 and 3: Extinguished manually after the end of the test duration.					

4	Classification of burning behaviour EN 13501-1:2018 ^a	
	The product, Jumpax Solid , in relation to its reaction to fire behaviour is classified:	D_{fl}
	The additional classification in relation to smoke production is:	s1
	Reaction to fire classification : D_{fl} – s1	
	Field of application <ul style="list-style-type: none"> - As a floor covering in accordance with the nominal product parameters given on page 3. - On end use substrates of classes A1 and A2-s1,d0 according to EN 13238:2010. - Any way of fixation, glued down or loose laid. 	
	Statements <ul style="list-style-type: none"> - This document does not represent type approval or certification of the product. - The test results only relate to the behaviour of the test specimens of the examined product under the particular conditions of the test in laboratory conditions; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use. - The validity of this report will expire directly after alterations or modifications of the examined 	

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Clause Deel	Requirements - Tests / Vereisten - Tests	Measuring results – Remarks Meetresultaten – Opmerkingen	Result Resultaat
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product (combination)(s) and/or the criteria.

5	Potential classes of reaction to fire performance for floorings EN 13501-1:2018		
Class	Test method(s)	Classification criteria	Additional classifications
A1 _{fl}	EN ISO 1182 ^a and	$\Delta T \leq 30 \text{ }^\circ\text{C}$; and $\Delta m \leq 50 \%$; and $t_f = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	$PCS \leq 2.0 \text{ MJ/kg}^a$ and $PCS \leq 2.0 \text{ MJ/m}^2^b$ and $PCS \leq 1.4 \text{ MJ/m}^2^c$ and $PCS \leq 2.0 \text{ MJ/kg}^d$	-
A2 _{fl}	EN ISO 1182 ^a or	$\Delta T \leq 50 \text{ }^\circ\text{C}$ and $\Delta m \leq 50 \%$ and $t_f \leq 20 \text{ s}$	-
	EN ISO 1716 and	$PCS \leq 3.0 \text{ MJ/kg}^a$ and $PCS \leq 4.0 \text{ MJ/m}^2^b$ and $PCS \leq 4.0 \text{ MJ/m}^2^c$ and $PCS \leq 3.0 \text{ MJ/kg}^d$	-
	EN ISO 9239-1 ^e	$CHF \geq 8.0 \text{ kW/m}^2$	Smoke production ^g
B _{fl}	EN ISO 9239-1 ^e and	$CHF \geq 8.0 \text{ kW/m}^2$	Smoke production ^g
	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-
C _{fl}	EN ISO 9239-1 ^e and	$CHF \geq 4.5 \text{ kW/m}^2$	Smoke production ^g
	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-
D _{fl}	EN ISO 9239-1 ^e and	$CHF \geq 3.0 \text{ kW/m}^2$	Smoke production ^g
	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-
E _{fl}	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-
F _{fl}	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s > 150 \text{ mm}$ within 20 s	-
^a For homogeneous products and substantial components of non-homogeneous products. ^b For any external non-substantial component of non-homogeneous products. ^c For any internal non-substantial component of non-homogeneous products. ^d For the product as a whole. ^e Test duration = 30 min. ^f Critical flux is defined as the radiant flux at which the flame extinguishes or the radiant flux after a test period of 30 min, whichever is the lower (i.e. the flux corresponding with the furthest extent of spread of flame). ^g s1 = Smoke $\leq 750 \%$ minutes; s2 = not s1. ^h Under conditions of surface flame attack and, if appropriate to the end use application of the product, edge flame attack.			

Report produced with the Fire Testing Technology FRPSoft software

page 1

Flooring Radiant Panel Single Specimen Report

Standard : EN ISO 9239-1:2010
Laboratory : TÜV Rheinland Nederland B. V.
Sponsor : 89220431 Unifloor
Date of test : Feb. 28 2022

Specimen description : MT22-220431.02
Test name : # 1
File name : D:\FRPFILES\22020020.CSV
Test number in series : 3

Flux calibration file name : C:\FRPSOFT2.9A\CALIB\FLX22001.CSV

Thickness (mm) : 14.7
Density (kg/m³) : 1046

Test duration : 30 minutes (1800 s)
Substrate used? : Yes
Substrate : Calcium silicate
Fixing method : none
Conditioned? : Yes
Conditioning temp. (°C) : 23
Conditioning RH (%) : 50

Test Results

Time to ignition : 2 minutes 10 seconds (130 s)
Time to flameout : 30 minutes (1800 s)
Extent of burning (mm) : 470
Critical flux at extinguishment (kW/m²) : 4.32
HF-10 (kW/m²) : 9.36
HF-20 (kW/m²) : 5.93
HF-30 (kW/m²) : 4.32
Flame spread at 10 minutes (mm) : 200
Flame spread at 20 minutes (mm) : 380
Flame spread at 30 minutes (mm) : 470
Peak light attenuation (%) : 27.18
Time to peak light attenuation : 30 minutes (1800 s)
Total integrated smoke (%.min) : 306.06

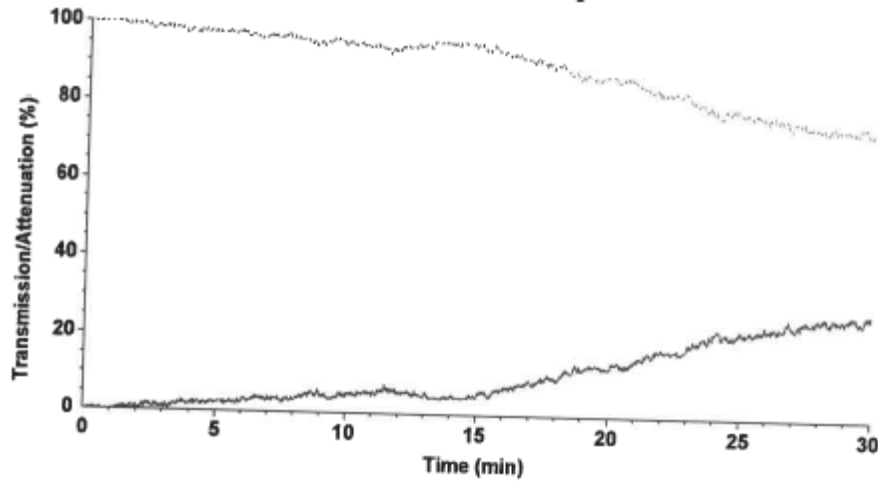
Potential classification : **D(f)**
Smoke production classification : **s1**

These results relate only to the behaviour of the specimens of the 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.

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Smoke Graph



Test name : # 1
File name : D:\FRPFILES\22020020.CSV

Rake Results

Position (mm)	Time (s)	Flux (kW/m ²)	Qsb (MJ/m ²)	Position (mm)	Time (s)	Flux (kW/m ²)	Qsb (MJ/m ²)
60	288	11.1	3.201	510	-	3.7	-
110	410	10.5	4.285	560	-	3.1	-
160	506	9.9	5.009	610	-	2.6	-
210	711	9.2	6.561	660	-	2.2	-
260	871	8.3	7.203	710	-	1.9	-
310	990	7.4	7.297	760	-	1.6	-
360	1149	6.3	7.262	810	-	1.4	-
410	1388	5.3	7.423	860	-	1.3	-
460	1757	4.5	7.850	910	-	1.2	-

Comments

Specimen was extinguished manually after end of test.

These results relate only to the behaviour of the specimens of the 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.

Flooring Radiant Panel Single Specimen Report

Standard : EN ISO 9239-1:2010
Laboratory : TÜV Rheinland Nederland B.V.
Sponsor : 89220431 Unifloor
Date of test : Feb. 28 2022

Specimen description : MT22-220431.02
Test name : # 2
File name : D:\FRPFILES\22020021.CSV
Test number in series : 3

Flux calibration file name : C:\FRPSOFT2.9A\CALIB\FLX22001.CSV

Thickness (mm) : 14.7
Density (kg/m³) : 1046

Test duration : 30 minutes (1800 s)
Substrate used? : Yes
Substrate : Calcium silicate
Fixing method : none
Conditioned? : Yes
Conditioning temp. (°C) : 23
Conditioning RH (%) : 50

Test Results

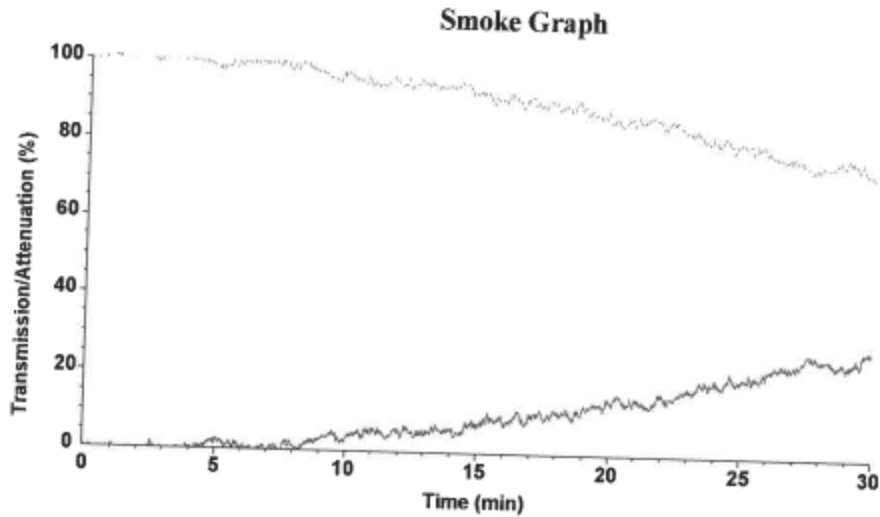
Time to ignition : 2 minutes 08 seconds (128 s)
Time to flameout : 30 minutes (1800 s)
Extent of burning (mm) : 490
Critical flux at extinguishment (kW/m²) : 4.02
HF-10 (kW/m²) : 9.04
HF-20 (kW/m²) : 5.74
HF-30 (kW/m²) : 4.02
Flame spread at 10 minutes (mm) : 220
Flame spread at 20 minutes (mm) : 390
Flame spread at 30 minutes (mm) : 490
Peak light attenuation (%) : 27.83
Time to peak light attenuation : 29 minutes 59 seconds (1799 s)
Total integrated smoke (%.min) : 285.3

Potential classification : **D(f1)**
Smoke production classification : **s1**

These results relate only to the behaviour of the specimens of the 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.

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page 2



Test name : # 2
 File name : D:\FRPFILES\22020021.CSV

Rake Results

Position (mm)	Time (s)	Flux (kW/m ²)	Qsb (MJ/m ²)	Position (mm)	Time (s)	Flux (kW/m ²)	Qsb (MJ/m ²)
60	321	11.1	3.568	510	-	3.7	-
110	435	10.5	4.547	560	-	3.1	-
160	493	9.9	4.881	610	-	2.6	-
210	588	9.2	5.426	660	-	2.2	-
260	718	8.3	5.938	710	-	1.9	-
310	893	7.4	6.582	760	-	1.6	-
360	1060	6.3	6.699	810	-	1.4	-
410	1325	5.3	7.086	860	-	1.3	-
460	1602	4.5	7.158	910	-	1.2	-

Comments

Specimen was extinguished manually after end of test.

These results relate only to the behaviour of the specimens of the 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.

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page 1

Flooring Radiant Panel Single Specimen Report

Standard : EN ISO 9239-1:2010
Laboratory : TÜV Rheinland Nederland B.V.
Sponsor : 89220431 Unifloor
Date of test : Feb. 28 2022

Specimen description : MT22-220431.02
Test name : # 3
File name : D:\FRPFILES\22020022.CSV
Test number in series : 3

Flux calibration file name : C:\FRPSOFT2.9A\CALIB\FLX22001.CSV

Thickness (mm) : 14.7
Density (kg/m³) : 1046

Test duration : 30 minutes (1800 s)
Substrate used? : Yes
Substrate : Calcium silicate
Fixing method : none
Conditioned? : Yes
Conditioning temp. (°C) : 23
Conditioning RH (%) : 50

Test Results

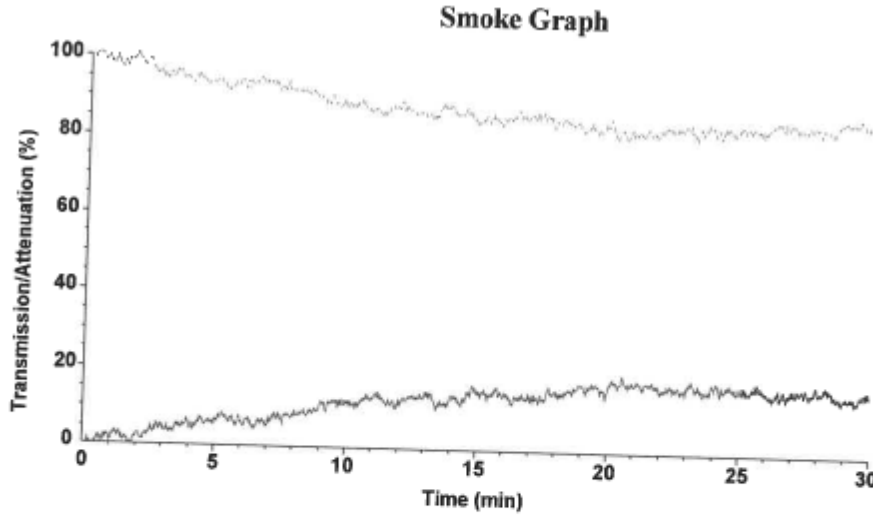
Time to ignition : 2 minutes 05 seconds (125 s)
Time to flameout : 30 minutes (1800 s)
Extent of burning (mm) : 470
Critical flux at extinguishment (kW/m²) : 4.32
HF-10 (kW/m²) : 9.36
HF-20 (kW/m²) : 6.13
HF-30 (kW/m²) : 4.32
Flame spread at 10 minutes (mm) : 200
Flame spread at 20 minutes (mm) : 370
Flame spread at 30 minutes (mm) : 470
Peak light attenuation (%) : 20.07
Time to peak light attenuation : 20 minutes 33 seconds (1233 s)
Total integrated smoke (%.min) : 359.68

Potential classification : **D(f)**
Smoke production classification : **s1**

These results relate only to the behaviour of the specimens of the 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.

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page 2



Test name : # 3
 File name : D:\FRPFILES\22020022.CSV

Rake Results

Position (mm)	Time (s)	Flux (kW/m ²)	Qsb (MJ/m ²)	Position (mm)	Time (s)	Flux (kW/m ²)	Qsb (MJ/m ²)
60	252	11.1	2.801	510	-	3.7	-
110	399	10.5	4.170	560	-	3.1	-
160	538	9.9	5.326	610	-	2.6	-
210	719	9.2	6.635	660	-	2.2	-
260	844	8.3	6.980	710	-	1.9	-
310	993	7.4	7.319	760	-	1.6	-
360	1197	6.3	7.565	810	-	1.4	-
410	1386	5.3	7.412	860	-	1.3	-
460	1699	4.5	7.591	910	-	1.2	-

Comments

Specimen was extinguished manually after end of test.

These results relate only to the behaviour of the specimens of the 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.