


Prüfbericht-Nr.: <i>Test Report No.:</i>	89216086.05br	Auftrags-Nr.: <i>Order No.:</i>	76293	Seite 1 von 14 Page 1 of 14
Kunden-Referenz-Nr.: <i>Client Reference No.:</i>	4501076805	Auftragsdatum: <i>Order date:</i>	04.11.2019	
Auftraggeber: <i>Client:</i>	Forbo Flooring B.V., PO Box 13, 1560 AA Krommenie, The Netherlands			
Prüfgegenstand: <i>Test item:</i>	Resilient floor covering			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>	Marmoleum Modular			
Auftrags-Inhalt: <i>Order content:</i>	Classification of burning behaviour			
Prüfgrundlage: <i>Test specification:</i>	EN 13501-1:2007+ A1:2009 Classification of burning behaviour <i>Test methods: Ignitability of products subjected to direct impingement of flame (EN ISO 11925-2:2010/C1:2011) and determination of the burning behaviour using a radiant heat source (EN ISO 9239-1:2010)</i>			
Wareneingangsdatum: <i>Date of receipt:</i>	15.11.2019			
Prüfmuster-Nr.: <i>Test sample No.:</i>	MT19-76293.05			
Prüfzeitraum: <i>Testing period:</i>	15.11.2019 - 12.12.2019			
Ort der Prüfung: <i>Place of testing:</i>	Westervoortsedijk 73, 6827 AV Arnhem, Netherlands			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland Nederland B.V			
Prüfergebnis*: <i>Test result*:</i>	Siehe Sonstiges / See Other			
geprüft von / tested by:		kontrolliert von / reviewed by:		
18.12.2019	M.A. van de Vlekkert	18.12.2019	R. Boerboom	
Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>	Unterschrift <i>Signature</i>	Datum <i>Date</i>	Name / Stellung <i>Name / Position</i>
Sonstiges / Other: Test result: See clause 4 on page 5.				
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>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.</i>				

V04

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Produktbeschreibung
Product description

Product identity	Marmoleum Modular*	Dessinnumber	T3405*
Batchnumber	25881*		

* applicants declaration

Figure 1, Picture of the received sample (surface)



Figure 2, Picture of the received sample (surface detail)



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1	Construction data (indicative) of the product obtained by the testlaboratory after pre-conditioning <i>01-4.3-P.02-322-WI01</i>	
	Test condition	23 ± 2°C and 50 ± 4% relative humidity
	Pre conditioning, duration	≥ 48 h & until constant mass is achieved
	Total thickness (mm)	20.7
	Total mass (g/m ²)	14491
	Density (kg/m ³)	702
	<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>	

2	Ignitability of products subjected to direct impingement of flame <i>EN ISO 11925-2:2010/C1:2011</i>								
	Date of testing			04.12.2019					
	Pre-conditioning, climate			23 ± 2°C and 50 ± 4% relative humidity					
	Pre-conditioning, duration			≥ 48 h & until constant mass is achieved					
	Description of substrate			Particle board, thickness 20 ± 2 mm, density 680 ± 50 kg/m ³ conforming to EN 13238:2010					
	Flame application			Surface					
	Flame application time (s)			15					
	Requirements according EN 13501-1:2007+A1:2009			See clause 5					
	Test result(s)								
	Orientation			Length			Width		
	Test sample			1	2	3	1	2	3
	Ignition of the sample			Yes	Yes	Yes	Yes	Yes	Yes
	Flame tip reached 150 mm above the application point			No	No	No	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	N/A	N/A	N/A
	Extent of damaged area, length (mm)			35	30	35	32	30	33
	Extent of damaged area, width (mm)			10	11	11	11	11	12
	Material melts			No	No	No	No	No	No
	Shrinks away from flame without being ignited			No	No	No	No	No	No
	After glowing			No	No	No	No	No	No
	Flaming droplets/particles which caused ignition of filter paper			No	No	No	No	No	No

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3	Determination of the burning behaviour using a radiant heat source <i>EN ISO 9239-1:2010</i>					
	Date of testing	12.12.2019				
	Pre-conditioning, climate	23 ± 2°C and 50 ± 4% relative humidity				
	Pre-conditioning, duration	≥ 48 h & until constant mass is achieved				
	Description of substrate	Particle board, thickness 20 ± 2 mm, density 680 ± 50 kg/m ³ conforming to EN 13238:2010				
	Fixing method	The samples are glued to the substrate with Eurocol 614.				
	Requirements according EN 13501-1:2007+ A1:2009	See clause 5				
	Test result(s)					
	Test sample	1	2	3	4	Mean
	Orientation (Length: ↑ , Width: T)	↑	T	↑	↑	↑
Flame spread (cm)	36	31	35	34	35	
CHF / HF-30 (kW/m ²)	6.2	7.3	6.5	6.7	6.5	
Maximum light attenuation (%)	41.6	44.4	39.2	45.0	41.9	
Smoke production (%.min)	275	265	258	266	266	
Observations: Specimen 1, 2, 3 and 4: No flashing, transitory- or sustained flaming are observed. Specimen 1: Extinguished manually after the end of the test duration. Specimen 2, 3 and 4: Extinguished naturally before the end of the test duration.						

4	Classification of burning behaviour EN 13501-1:2007+A1:2009	
	The product, Marmoleum Modular in relation to its reaction to fire behaviour is classified:	C_{fl}
	The additional classification in relation to smoke production is:	s1
	Reaction to fire classification : C_{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 wood and of classes A1 and A2-s1,d0 according to EN 13238:2010. - Glued down with Eurocol 614. 	
	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 product (combination)(s) and/or the criteria. 	

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5	Potential classes of reaction to fire performance for floorings EN 13501-1:2007+A1:2009			
	Class	Test method(s)	Classification criteria	Additional classifications
	A1 _{fi}	EN ISO 1182 ^a and	$\Delta T \leq 30 \text{ }^{\circ}\text{C}$; and $\Delta m \leq 50 \text{ \%}$; 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 _{fi}	EN ISO 1182 ^a or	$\Delta T \leq 50 \text{ }^{\circ}\text{C}$ and $\Delta m \leq 50 \text{ \%}$ 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 _{fi}	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 _{fi}	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 _{fi}	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 _{fi}	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-
	F _{fi}	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 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 $\leq 750 \text{ \% minutes}$; s2 = not s1. ^h Under conditions of surface flame attack and, if appropriate to the end use application of the product, edge flame attack.			

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Flooring Radiant Panel Single Specimen Report

Standard : EN ISO 9239-1:2010
 Laboratory : TÜV Rheinland Nederland B.V.
 Sponsor : Forbo 89216086
 Date of test : Dec. 12 2019

Specimen description : Marmoleum Modular MT19-76293.05
 Test name : # prod 1
 File name : D:\FRPFILES\19120021.CSV
 Test number in series : 4

Flux calibration file name : C:\FRPSOFT2.9A\CALIB\FLX19003.CSV

Thickness (mm) : 20.7
 Density (kg/m³) : 702

Test duration : 30 minutes (1800 s)
 Substrate used? : Yes
 Substrate : Particle board
 Fixing method : adhesive
 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) : 360
 Critical flux at extinguishment (kW/m²) : 6.23
 HF-10 (kW/m²) : 8.48
 HF-20 (kW/m²) : 6.45
 HF-30 (kW/m²) : 6.23
 Flame spread at 10 minutes (mm) : 250
 Flame spread at 20 minutes (mm) : 350
 Flame spread at 30 minutes (mm) : 360
 Peak light attenuation (%) : 41.57
 Time to peak light attenuation : 7 minutes 19 seconds (439 s)
 Total integrated smoke (%.min) : 274.5

Potential classification : C(II)
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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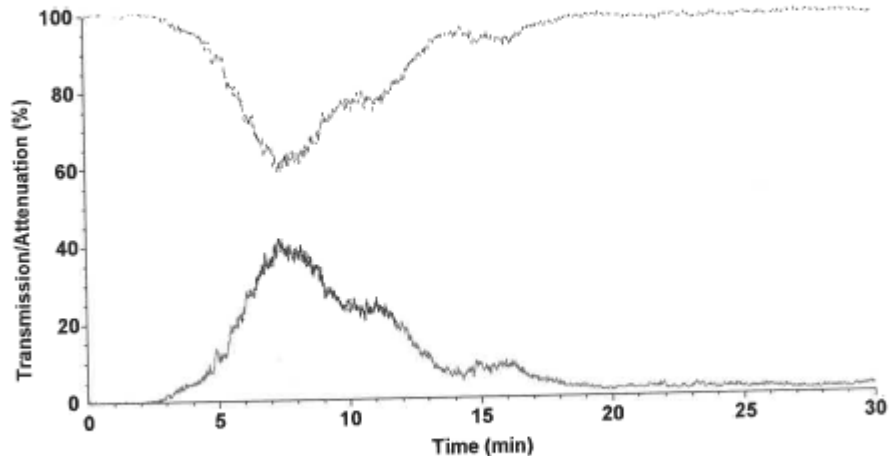
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Smoke Graph



Test name : # prod 1
File name : D:\FRPFILES\19120021.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	304	11.1	3.370	510	-	3.7	-
110	381	10.5	3.985	560	-	3.1	-
160	423	9.9	4.206	610	-	2.7	-
210	510	9.3	4.746	660	-	2.3	-
260	671	8.3	5.554	710	-	2.0	-
310	897	7.3	6.554	760	-	1.7	-
360	1790	6.2	11.153	810	-	1.5	-
410	-	5.2	-	860	-	1.3	-
460	-	4.4	-	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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Flooring Radiant Panel Single Specimen Report

Standard : EN ISO 9239-1:2010
 Laboratory : TÜV Rheinland Nederland B.V.
 Sponsor : Forbo 89216086
 Date of test : Dec. 12 2019

Specimen description : Marmoleum Modular MT19-76293.05
 Test name : # cross 2
 File name : D:\FRPFILES\19120022.CSV
 Test number in series : 4

Flux calibration file name : C:\FRPSOFT2.9A\CALIB\FLX19003.CSV

Thickness (mm) : 20.7
 Density (kg/m³) : 702

Test duration : 21 minutes 33 seconds (1293 s)
 Substrate used? : Yes
 Substrate : Particle board
 Fixing method : adhesive
 Conditioned? : Yes
 Conditioning temp. (°C) : 23
 Conditioning RH (%) : 50

Test Results

Time to ignition : 2 minutes 05 seconds (125 s)
 Time to flameout : 20 minutes 28 seconds (1228 s)
 Extent of burning (mm) : 310
 Critical flux at extinguishment (kW/m²) : 7.31
 HF-10 (kW/m²) : 7.89
 HF-20 (kW/m²) : 7.31
 HF-30 (kW/m²) : Not calculated (test duration < 30 minutes)
 Flame spread at 10 minutes (mm) : 280
 Flame spread at 20 minutes (mm) : 310
 Flame spread at 30 minutes (mm) : Not measured
 Peak light attenuation (%) : 44.35
 Time to peak light attenuation : 7 minutes 20 seconds (440 s)
 Total integrated smoke (%.min) : 264.75

Potential classification : C(n)
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.

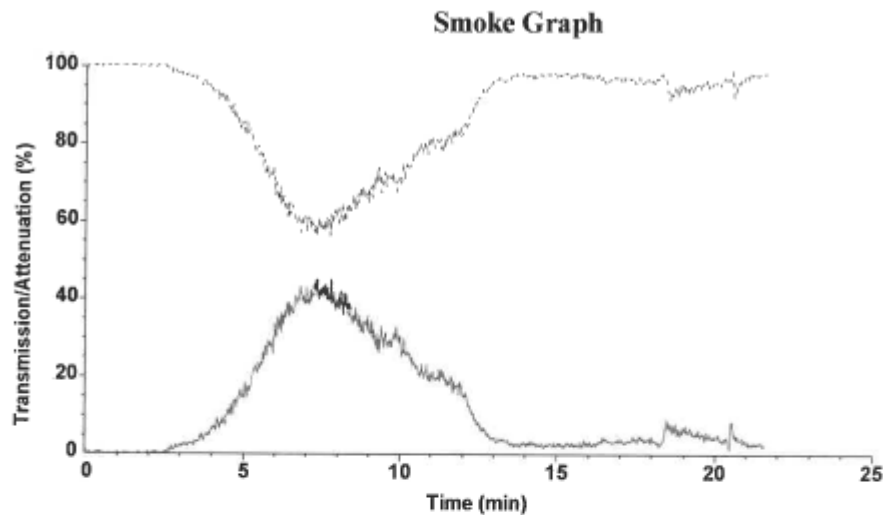
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Test name : # cross 2

File name : D:\FRPFILES\19120022.CSV

Rake Results

Position (mm)	Time (s)	Flux (kW/m²)	Qsb (MJ/m²)	Position (mm)	Time (s)	Flux (kW/m²)	Qsb (MJ/m²)
60	260	11.1	2.882	510	-	3.7	-
110	339	10.5	3.546	560	-	3.1	-
160	383	9.9	3.808	610	-	2.7	-
210	465	9.3	4.327	660	-	2.3	-
260	551	8.3	4.561	710	-	2.0	-
310	782	7.3	5.714	760	-	1.7	-
360	-	6.2	-	810	-	1.5	-
410	-	5.2	-	860	-	1.3	-
460	-	4.4	-	910	-	1.2	-

Comments

Specimen extinguished naturally.

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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Flooring Radiant Panel Single Specimen Report

Standard : EN ISO 9239-1:2010
 Laboratory : TÜV Rheinland Nederland B.V.
 Sponsor : Forbo 89216086
 Date of test : Dec. 12 2019

Specimen description : Marmoleum Modular MT19-76293.05
 Test name : # length 3
 File name : D:\FRPFILES\19120023.CSV
 Test number in series : 4

Flux calibration file name : C:\FRPSOFT2.9A\CALIB\FLX19003.CSV

Thickness (mm) : 20.7
 Density (kg/m³) : 702

Test duration : 20 minutes 32 seconds (1232 s)
 Substrate used? : Yes
 Substrate : Particle board
 Fixing method : adhesive
 Conditioned? : Yes
 Conditioning temp. (°C) : 23
 Conditioning RH (%) : 50

Test Results

Time to ignition : 2 minutes 05 seconds (125 s)
 Time to flameout : 20 minutes 20 seconds (1220 s)
 Extent of burning (mm) : 350
 Critical flux at extinguishment (kW/m²) : 6.45
 HF-10 (kW/m²) : 8.08
 HF-20 (kW/m²) : 6.45
 HF-30 (kW/m²) : Not calculated (test duration < 30 minutes)
 Flame spread at 10 minutes (mm) : 270
 Flame spread at 20 minutes (mm) : 350
 Flame spread at 30 minutes (mm) : Not measured
 Peak light attenuation (%) : 39.2
 Time to peak light attenuation : 7 minutes 21 seconds (441 s)
 Total integrated smoke (%.min) : 257.71

Potential classification : C(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.

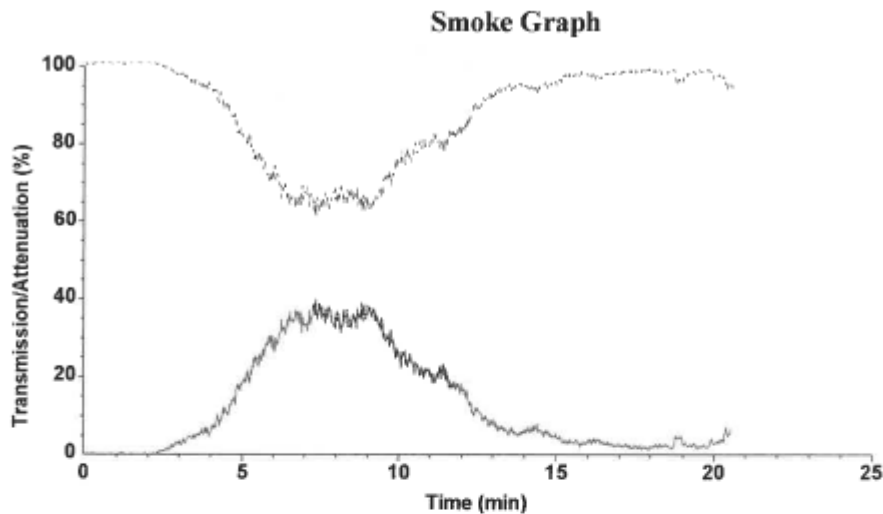
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Test name : # length 3

File name : D:\FRPFILES\19120023.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	282	11.1	3.126	510	-	3.7	-
110	325	10.5	3.399	560	-	3.1	-
160	415	9.9	4.126	610	-	2.7	-
210	492	9.3	4.579	660	-	2.3	-
260	568	8.3	4.701	710	-	2.0	-
310	737	7.3	5.385	760	-	1.7	-
360	-	6.2	-	810	-	1.5	-
410	-	5.2	-	860	-	1.3	-
460	-	4.4	-	910	-	1.2	-

Comments

Specimen extinguished naturally.

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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Flooring Radiant Panel Single Specimen Report

Standard : EN ISO 9239-1:2010
 Laboratory : TÜV Rheinland Nederland B.V.
 Sponsor : Forbo 89216086
 Date of test : Dec. 12 2019

Specimen description : Marmoleum Modular MT19-76293.05
 Test name : # length 4
 File name : D:\FRPFILES\19120024.CSV
 Test number in series : 4

Flux calibration file name : C:\FRPSOFT2.9A\CALIB\FLX19003.CSV

Thickness (mm) : 20.7
 Density (kg/m³) : 702

Test duration : 20 minutes 35 seconds (1235 s)
 Substrate used? : Yes
 Substrate : Particle board
 Fixing method : adhesive
 Conditioned? : Yes
 Conditioning temp. (°C) : 23
 Conditioning RH (%) : 50

Test Results

Time to ignition : 2 minutes 05 seconds (125 s)
 Time to flameout : 20 minutes 34 seconds (1234 s)
 Extent of burning (mm) : 340
 Critical flux at extinguishment (kW/m²) : 6.66
 HF-10 (kW/m²) : 7.89
 HF-20 (kW/m²) : 6.66
 HF-30 (kW/m²) : Not calculated (test duration < 30 minutes)
 Flame spread at 10 minutes (mm) : 280
 Flame spread at 20 minutes (mm) : 340
 Flame spread at 30 minutes (mm) : Not measured
 Peak light attenuation (%) : 45.01
 Time to peak light attenuation : 7 minutes 40 seconds (460 s)
 Total integrated smoke (%.min) : 266.35

Potential classification : C(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.

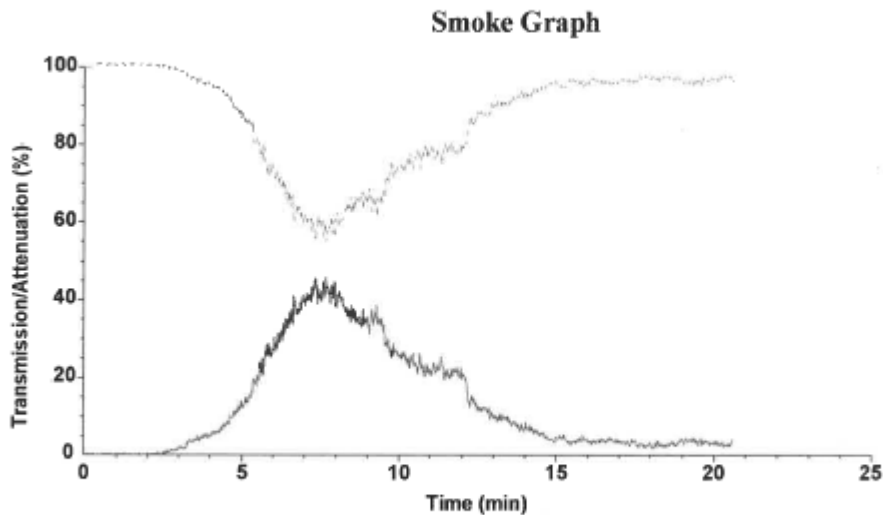
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Test name : # length 4

File name : D:\FRPFILES\19120024.CSV

Rake Results

Position (mm)	Time (s)	Flux (kW/m²)	Qsb (MJ/m²)	Position (mm)	Time (s)	Flux (kW/m²)	Qsb (MJ/m²)
60	285	11.1	3.159	510	-	3.7	-
110	340	10.5	3.556	560	-	3.1	-
160	420	9.9	4.176	610	-	2.7	-
210	475	9.3	4.420	660	-	2.3	-
260	554	8.3	4.585	710	-	2.0	-
310	844	7.3	6.167	760	-	1.7	-
360	-	6.2	-	810	-	1.5	-
410	-	5.2	-	860	-	1.3	-
460	-	4.4	-	910	-	1.2	-

Comments

Specimen extinguished naturally.

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.