

Prüfbericht-Nr.: Test Report No.:	89215730.03br	Auftrags-Nr.: Order No.:	35930	Seite 1 von 14 Page 1 of 14
Kunden-Referenz-Nr.: Client Reference No.:	4501064354	Auftragsdatum: Order date:	03.09.2019	
Auftraggeber: Client:	Forbo-Novilon B.V., De Holwert 12, 7741 KC COEVORDEN, The Netherlands			
Prüfgegenstand: Test item:	Resilient floor covering			
Bezeichnung / Typ-Nr.: Identification / Type No.:	Eternal Plus			
Auftrags-Inhalt: Order content:	Determination of burning behaviour			
Prüfgrundlage: Test specification:	EN 13501-1:2007+ A1:2009 Classification of burning behaviour 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)			
Wareneingangsdatum: Date of receipt:	04.09.2019			
Prüfmuster-Nr.: Test sample No.:	MT19-35930.03			
Prüfzeitraum: Testing period:	04.09.2019 – 30.10.2019			
Ort der Prüfung: Place of testing:	Westervoortsedijk 73, 6827 AV Arnhem, Netherlands			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland Nederland B.V			
Prüfergebnis*: Test result*:	Siehe Sonstiges / See Other			
geprüft von / tested by:		kontrolliert von / reviewed by:		
31.10.2019	M.A. van de Vlekkert	31.10.2019	R. Boerboom	
Datum Date	Name / Stellung Name / Position	Unterschrift Signature	Datum Date	Name / Stellung Name / Position
Sonstiges / Other:		Test result: See clause 4 on page 5.		
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* 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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Liste der verwendeten Prüfmittel
List of used test equipment

[illegible]

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Produktbeschreibung
Product description

Product identity	Eternal Plus*	Backing	Grey coloured calendared backing*
Product type	Heterogeneous PVC floor covering*	Total thickness (mm)	2.50*
Base of product	Impregnated glass fleece web*	Top layer (mm)	0.90*

* applicants declaration

Figure 1, Picture of the received sample (surface)



Figure 2, Picture of the received sample (back)



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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)	20.9
	Total mass (g/m ²)	15018
	Density (kg/m ³)	720
	<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	30.10.2019					
	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)	25	25	25	27	26	25
	Extent of damaged area, width (mm)	12	12	12	12	12	12
	Material melts	Yes	Yes	Yes	Yes	Yes	Yes
	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		30.10.2019				
	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/m³ conforming to EN 13238:2010				
	Fixing method		The samples are glued to the substrate with Eurocol 640.				
	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	T	T	T
Flame spread (cm)		22	23	23	24	23	
CHF / HF-30 (kW/m²)		9.0	8.8	8.8	8.6	8.7	
Maximum light attenuation (%)		71.2	85.4	74.7	80.4	80.2	
Smoke production (%.min)		213	221	222	244	229	
Observations: Specimen 1, 2, 3 and 4: Flashing, transitory- or sustained flaming are observed. Specimen 1, 2, 3 and 4: Extinguished naturally before the end of the test duration.							

4	Classification of burning behaviour <i>EN 13501-1:2007+A1:2009</i>	
	The product, Eternal Plus in relation to its reaction to fire behaviour is classified:	B_{fl}
	The additional classification in relation to smoke production is:	s1
	Reaction to fire classification : B_{fl} – s1	
	Field of application - 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 640.	
	Statements - 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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6	Flooring Radiant Panel Single Specimen Report 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 : Forbo 89215730 Date of test : Oct. 30 2019 Specimen description : Eternal Plus MT19-35930.03 Test name : #prod 1 File name : D:\FRPFILES\19100073.CSV Test number in series : 4 Flux calibration file name : C:\FRPSOFT2.9A\CALIB\FLX19002.CSV Thickness (mm) : 20.9 Density (kg/m³) : 720 Test duration : 12 minutes 08 seconds (728 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 03 seconds (123 s) Time to flameout : 12 minutes 06 seconds (726 s) Extent of burning (mm) : 220 Critical flux at extinguishment (kW/m²) : 9.04 HF-10 (kW/m²) : 9.04 HF-20 (kW/m²) : Not calculated (test duration < 20 minutes) HF-30 (kW/m²) : Not calculated (test duration < 30 minutes) Flame spread at 10 minutes (mm) : 220 Flame spread at 20 minutes (mm) : Not measured Flame spread at 30 minutes (mm) : Not measured Peak light attenuation (%) : 71.17 Time to peak light attenuation : 4 minutes 40 seconds (280 s) Total integrated smoke (% min) : 212.68 Potential classification : A2(II)/B(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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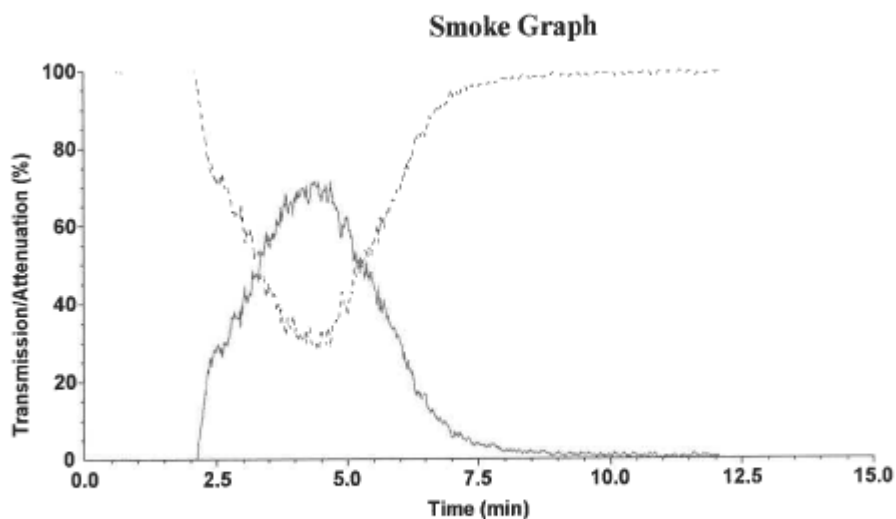
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Test name : #prod 1
File name : D:\FRPFILES\19100073.CSV

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	169	11.1	1.877	510	-	3.6	-
110	207	10.4	2.163	560	-	3.0	-
160	241	9.9	2.387	610	-	2.5	-
210	328	9.2	3.029	660	-	2.1	-
260	-	8.2	-	710	-	1.8	-
310	-	7.3	-	760	-	1.6	-
360	-	6.1	-	810	-	1.4	-
410	-	5.1	-	860	-	1.2	-
460	-	4.2	-	910	-	1.0	-

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 89215730
Date of test : Oct. 30 2019

Specimen description : Eternal Plus MT19-35930.03
Test name : #cross 2
File name : D:\FRPFILES\19100074.CSV
Test number in series : 4

Flux calibration file name : C:\FRPSOFT2.9A\CALIB\FLX19002.CSV

Thickness (mm) : 20.9
Density (kg/m³) : 720

Test duration : 12 minutes 11 seconds (731 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 04 seconds (124 s)
Time to flameout : 12 minutes 09 seconds (729 s)
Extent of burning (mm) : 230
Critical flux at extinguishment (kW/m²) : 8.84
HF-10 (kW/m²) : 8.84
HF-20 (kW/m²) : Not calculated (test duration < 20 minutes)
HF-30 (kW/m²) : Not calculated (test duration < 30 minutes)
Flame spread at 10 minutes (mm) : 230
Flame spread at 20 minutes (mm) : Not measured
Flame spread at 30 minutes (mm) : Not measured
Peak light attenuation (%) : 85.4
Time to peak light attenuation : 3 minutes 56 seconds (236 s)
Total integrated smoke (%.min) : 220.55
Potential classification : A2(n)/B(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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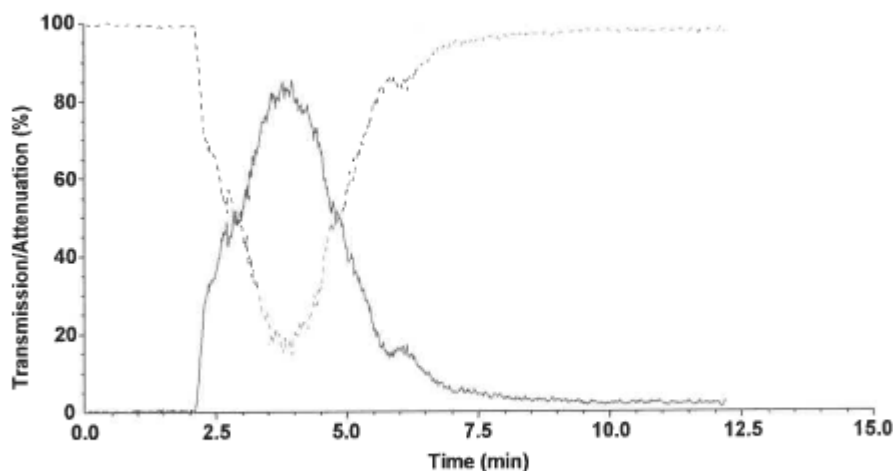
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Smoke Graph



Test name : #cross 2
File name : D:\FRPFILES\19100074.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	158	11.1	1.755	510	-	3.6	-
110	181	10.4	1.891	560	-	3.0	-
160	204	9.9	2.020	610	-	2.5	-
210	237	9.2	2.189	660	-	2.1	-
260	-	8.2	-	710	-	1.8	-
310	-	7.3	-	760	-	1.6	-
360	-	6.1	-	810	-	1.4	-
410	-	5.1	-	860	-	1.2	-
460	-	4.2	-	910	-	1.0	-

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 89215730
 Date of test : Oct. 30 2019

Specimen description : Eternal Plus MT19-35930.03
 Test name : #cross 3
 File name : D:\FRPFILES\19100075.CSV
 Test number in series : 4

Flux calibration file name : C:\FRPSOFT2.9A\CALIB\FLX19002.CSV

Thickness (mm) : 20.9
 Density (kg/m³) : 720

Test duration : 12 minutes 26 seconds (746 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 04 seconds (124 s)
 Time to flameout : 12 minutes 24 seconds (744 s)
 Extent of burning (mm) : 230
 Critical flux at extinguishment (kW/m²) : 8.84
 HF-10 (kW/m²) : 8.84
 HF-20 (kW/m²) : Not calculated (test duration < 20 minutes)
 HF-30 (kW/m²) : Not calculated (test duration < 30 minutes)
 Flame spread at 10 minutes (mm) : 230
 Flame spread at 20 minutes (mm) : Not measured
 Flame spread at 30 minutes (mm) : Not measured
 Peak light attenuation (%) : 74.65
 Time to peak light attenuation : 3 minutes 50 seconds (230 s)
 Total integrated smoke (%.min) : 222.35

Potential classification : A2(II)/B(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.

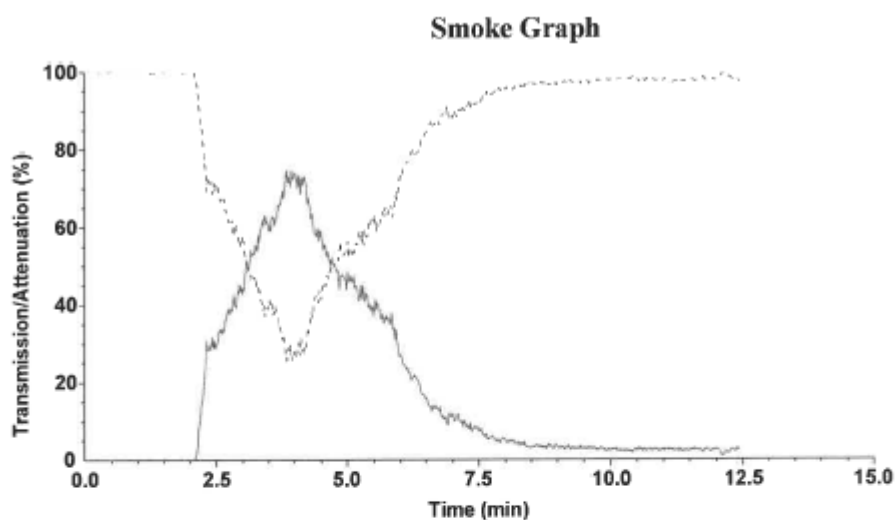
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Test name : #cross 3

File name : D:\FRPFILES\19100075.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	164	11.1	1.822	510	-	3.6	-
110	197	10.4	2.059	560	-	3.0	-
160	226	9.9	2.238	610	-	2.5	-
210	324	9.2	2.992	660	-	2.1	-
260	-	8.2	-	710	-	1.8	-
310	-	7.3	-	760	-	1.6	-
360	-	6.1	-	810	-	1.4	-
410	-	5.1	-	860	-	1.2	-
460	-	4.2	-	910	-	1.0	-

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 89215730
 Date of test : Oct. 30 2019

Specimen description : Eternal Plus MT19-35930.03
 Test name : #cross 4
 File name : D:\FRPFILES\19100076.CSV
 Test number in series : 4

Flux calibration file name : C:\FRPSOFT2.9A\CALIB\FLX19002.CSV

Thickness (mm) : 20.9
 Density (kg/m³) : 720

Test duration : 12 minutes 06 seconds (726 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 04 seconds (124 s)
 Time to flameout : 12 minutes 04 seconds (724 s)
 Extent of burning (mm) : 240
 Critical flux at extinguishment (kW/m²) : 8.64
 HF-10 (kW/m²) : 8.64
 HF-20 (kW/m²) : Not calculated (test duration < 20 minutes)
 HF-30 (kW/m²) : Not calculated (test duration < 30 minutes)
 Flame spread at 10 minutes (mm) : 240
 Flame spread at 20 minutes (mm) : Not measured
 Flame spread at 30 minutes (mm) : Not measured
 Peak light attenuation (%) : 80.41
 Time to peak light attenuation : 4 minutes 01 seconds (241 s)
 Total integrated smoke (%.min) : 243.91

Potential classification : A2(0)/B(0)
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.

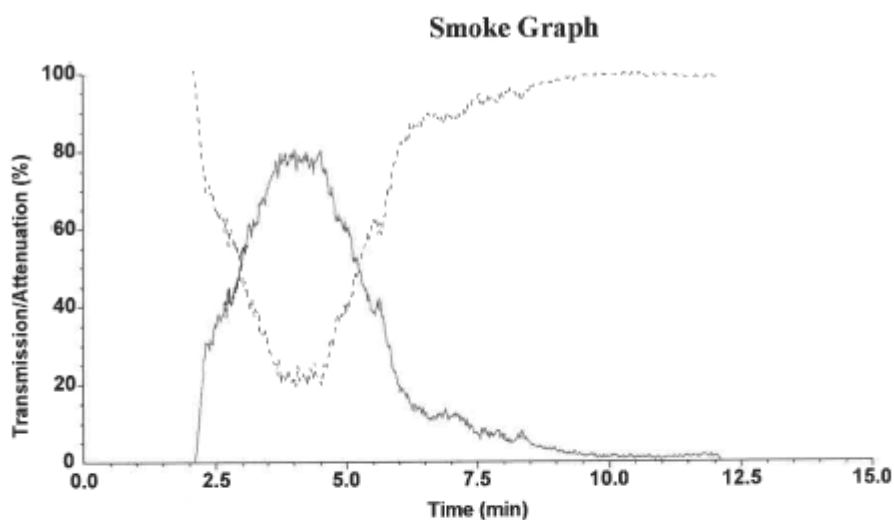
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Test name : #cross 4
File name : D:\FRPFILES\19100076.CSV

Rake Results

Position (mm)	Time (s)	Flux (kW/m²)	Qsb (MJ/m²)	Position (mm)	Time (s)	Flux (kW/m²)	Qsb (MJ/m²)
60	162	11.1	1.799	510	-	3.6	-
110	187	10.4	1.954	560	-	3.0	-
160	241	9.9	2.387	610	-	2.5	-
210	286	9.2	2.641	660	-	2.1	-
260	-	8.2	-	710	-	1.8	-
310	-	7.3	-	760	-	1.6	-
360	-	6.1	-	810	-	1.4	-
410	-	5.1	-	860	-	1.2	-
460	-	4.2	-	910	-	1.0	-

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.