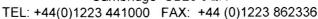
Pembroke Avenue, Waterbeach, Cambridge CB25 9QR





FIRE TEST REPORT

2795

Lab. Ref. No.:	FST34652	ss 1	s.o	No.:	L	18140	Page 1 of 2
Material:	VFR203, BATCH NO	MC22912					
Customer:	/IKING EXTRUSIONS LTD		P.O. No.:		23833		
	3/03/2017				N/A		
			Rel. Note No				
Specimen Conditioning: 2	24hr. min. at 22.5 +/- 1.5℃ and	50 +/- 5% RH	Test Plan / D	ocument	N/A		
TEST METHOD	/ SPECIFICATION	TE	TEST RESULT		MEAN	CRITERIA (max.	PASS/FAIL
		1	2 3			average)	
FLAMMABILITY				***************************************			
F1 CS 25.853(a) Amdt.	18 Afterflame (sec)	10.0	1 22.0	5.0	12.3	15 sec.	
App.F Pt.l(a)(1)(i) & (b))(4) Burn Length (in)	0.6	1.0	0.6	0.7	6 in.	PASS
60s. Vert.	Drip Exting Time (sec)		0.0	0.0	0.0	3 sec.	
F2 CS 25.853(a) Amdt.1		0.0	+	+		15 sec.	
App.F Pt.I(a)(1)(ii) & (b		 	+	+		8 in.	· .
12s. Vert.	Drip Exting Time (sec)		+	-		5 sec.	
F3 CS 25.853(a) Amdt.1		 	+	-			
App.F Pt.I(a)(1)(iv) & (b			 			2.5 in/min.	
F4 CS 25.853(a) Amdt.1	8	<u> </u>		1		1	
App.F Pt.I(a)(1)(v) & (b 15s Horiz.			-			4.0 in/min.	
F5 CS 25.855(d) Amdt.	18 Afterflame (sec)		1	1		15 sec.	
App.F Pt.I(a)(2)(ii) & (b)			-	1		10 sec.	
30sec/45°	Flame Penetration	1		1		NONE	
F6 CS 25.1713(c) Amdt			1	†		30 sec.	
App.F Pt.I(a)(3) (b)(7				1		3 in.	
30sec/60°	Drip Exting Time (sec)					3 sec.	
F7 HEAT RELEASE *		1	†				
CS 25.853(d) Amdt 1	8 2 min THR (kWmin/m²		-	†		65(kWmin/m²)	1
App.F Pt.IV (e) & (g)		1	1	†		65(kW/m²)	
F8 SMOKE EMISSION		 	 	†		†	
CS 25.853(d) Amdt 1			†	1		200	1
App.F Pt.V(a) & (b)			1	1			1
F9 SMOKE EMISSION		 	<u> </u>		1		
ABD0031 lssF/D6-51377		†		1		150/200	
ABD0031 IssF	(Non Flaming)			†		200	1
7,550001,1001	CO (Flaming)	†		†		400000500	
1 2	CO (Non-Flaming)	†	1	1		1000/3500	
,)	HCN (Flaming)	1		†		450/450	1
4.0	HCN (Non-Flaming)			†		150/150	
	HF (Flaming)			†		400/000	1
F10	HE (Non Flaming)	†	1	1		100/200	1
TOXIC GAS EMISSION (PPIII) HCL (Flaming)			 		450/500	1
ABD0031 lssF/D6-51377	REVG HCL (Non-Flaming)	t		1		150/500	
Ng.	SO ₂ (Flaming)	 	 	1		100/100	1
- 1	SO ₂ (Non-Flaming)	t	1	1		100/100	
,	NO _x (Flaming)	+	+	 		100	1
.7	NO _x (Flaming)			+		100/100	1
	11400 (14011-1 lattifild)	A					

The results detailed above relate only to the items tested.

COMMENTS:

Flammability: Flame Temp. (Min. 843C (1550F)): Smoke Emission: Heat Flux (25 +/- 0.5kW/m²): 853°C

Heat Release:

Calibration Factor:

0.2797 kW/mV

Heat Flux (35 +/- 0.5kW/m²):

TESTED BY:

NAME:

TITLE: DATE:

N.ORPWOOD **TEST ENGINEER**

13/03/2017

AUTHORISED BY:

NAME:

TITLE: DATE:

D. MOORE TEST LABORATORY MANAGER

13/03/2017

UNCERTAINTY OF MEASUREMENT

Flammability - Afterflame/Drip Exiting Time +/- 0.7sec, Burnlength +/- 0.1in, Burn Rate +/- 0.1in/min Heat

Release - +/- 1.5%

Smoke Emission - +/- 4% Toxic Gas Emission - +/- 15%

LAB.SF.27 Issue 7

ALTITUDE

Pembroke Avenue, Waterbeach, Cambridge CB25 9QR TEL: +44(0)1223 441000 FAX: +44 (0)1223 862336



FIRE TEST REPORT

2795

Lab. Ref. No.:	F070			0.00
Lab. Rel. No	FST34652 Iss 1	S.O No.:	L18140	Page 2 of 2
Material:	VFR203, BATCH NO MC22912			
Customer:	VIKING EXTRUSIONS LTD	P.O. No.:	23833	
Date of Test:	13/03/2017	Rel. Note No.:	N/A	
Specimen Conditioning:	24hr. min. at 22.5 +/- 1.5°C and 50 +/- 5% RH	Test Plan / Document	N/A	

Test Laboratory Equipment Used

"H"					
Number	"P" Number	Instrument	Serial No.	Expiry Date	Item Used For Test
270	001	OSU Chamber	K11234	08 August 2017	
404					
421	012	Vertical Flam Chamber	N/A	06 July 2017	*
422	013	Horizontal Flam Chamber	N/A	06 July 2017	
286	033	HAVEN THERMOCAL II CALIBRATOR	29461-116	25 August 2017	
	113	H/R Vatell TG1000-1	9181	15 November 2017	
490	099	Data Acquisition/Switch Unit	MY41028196	14 October 2017	
524	121	FTT Smoke Box	1111527	05 January 2018	
	175	Radiometer ***	16314	20 December 2017	
530	123	testo 350 flue gas anylizer	2291442/2293550	18 August 2017	
Market Co.	131	STOP WATCH		06 July 2017	*
508	114	TME TEMP READER***	46949	06 July 2017	*
	109	Conditioning chamber	46518	25 July 2017	*
586	146	16 Channel Reed Multiplexer	MY41017297	14 October 2017	
_	155	WET GAS METER	0.53F.GH4	22 June 2017	
_	156	Dräger X-act 500	ERHC-0715	05 July 2017	
_	157	Dräger X-act 500	ERHC-0041	05 July 2017	
_	158	Dräger X-act 500	ERHC-0135	05 July 2017	
	159	45/60° flamm chamber	N/A	20 October 2017	
86P5	ORPWOOD	12" Steel rule	N/A	09 February 2018	*
	-		19-19-19-19-19-19-19-19-19-19-19-19-19-1		
	-				
	-				
	+				
***********	+				
	+		de dunt materialism un materialism de provinciarism sitte sur o en		A THE OWNER, OF STREET, AND THE PROPERTY OF STREET, AND ASSESSED ASSESSED.
	†				

COMMENTS

CALIBRATION/EQUIPMENT CHECKED BY:

NAME:

TITLE: DATE: 7

N.ORPWOOD TEST ENGINEER 13/03/2017



AVIC Cabin Systems (UK) Limited

26 Pembroke Avenue Waterbeach Cambridgeshire United Kingdom, CB25 9QR Tel: +44 1223 44 1000 www.aviccabinsystemsuk.com



Nadcap

Administered by PRI

ACCREDITED

2795

UKAS

IEC/ISO 17025:2017

Nadcap

Non-Metallic Materials Testing

An Airbus Approved Test House ARP-ID 135583

Fire Safety Test Report

Lab Reference No:

FST51257 Issue 1

Sales Order No:

SE16912

Customer:

VIKING EXTRUSIONS

Purchase Order No:

29192

Material/Part No:

JOB NO: 56464. SHORE HARDNESS: VFR203. BATCH NO: MO28510. CURE

DATE: 25-07-22

Date of Test:

20 October 2022

Conditioning:

EASA - 24hr. min. at 21 +/- 3°C and 50 +/- 5% RH

Time In:

17/10/2022 10.00

Time Out:

20/10/2022 12.30

Release Note No:

N/A

Test Plan / Document:

N/A



Tests Results

Test Method/ Specification	F4 CS 25.853(a) Amdt.27 App.F Pt.I(a)(1)(v) & (b)(5)
	15 second horizontal

		TEST RESULT					CRITERIA	
	1	2	3	4	5	MEAN	(max average)	PASS/ FAIL
Burn Rale (in/min)	0.00	0.00	0.00			0.00	4.0 in/min.	PASS

Comments & **Observations**

Sample failed to ignite and reach timing marker

Compiled By:

I here by attest that this report has been generated in accordance with customer and regulatory requirements; recorded results reflect the test activity and test requirement.

Name

Date

Steve Ellis

Title

Test Laboratory Engineer

21 October 2022

Signed &

Stamped

I here by attest that test(s) have been conducted in accordance with customer and regulatory requirements, and all equipment is within calibration and fit for function; recorded results reflect the test activity and test requirement.

Name

Steve Ellis

Title

Test Laboratory Engineer

Date

21 October 2022

Signed & Stamped

Approved By:

I here by attest that this report and stated results have been generated in accordance with customer and regulatory requirements; recorded results reflect the test activity and test requirement.

Name

Dominic Moore

Title

Head of Quality

Date

21 October 2022

Signed &

Stamped

LAB.SF.27A ISS 13

Page 2 of 3



Equipment	Used
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Unique "P" No.	Description	Next Calibration Date		
P234	CONDITIONING CHAMBER	12 November 2022		
P342	DIGITAL THERMOMETER	21 July 2023		
P013	HORIZONTAL FLAM CHAMBER	22 June 2023		
P333	STEEL RULE	26 October 2022		
P337	STOPWATCH	03 March 2023		
P331	THERMOCOUPLE	21 July 2023		

Notes

- Note 1 Results detailed in this report relate only to the item(s) tested, as submitted by the customer.
- **Note 2** This test report <u>will not</u> be reproduced, except in full, without written approval from the laboratory.
- Note 3 Opinions and Interpretations are not accredited.
- Note 4 The material identification and/or descriptions have been supplied by the customer and has not been verified by AVIC Cabin Systems (UK) Limited.
- Note 5 The labporatory activities related to these results have been performed under our UKAS and Nadcap scopes of approval/accreditation. Results are reported as accredited, except in indicative instances.

Note 6 Decision Rule

The laboratory at AVIC Cabin Systems (UK) Limited employs the "Simple Acceptance" or "Shared Risk" decision rule as a default (unless otherwise specified by the customer).

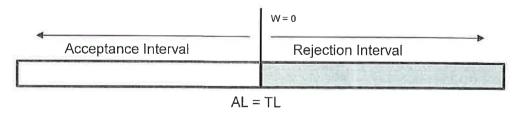
This is a binary decision rule, the acceptance limit (AL) is considered equal to the tolerance limit

(TL) and the guard band (w), equal to length 0.

Therefore, the specific risk can be up to 50% probability of false acceptance (PFA), as referenced in ILAC-G8:09/2019.

PASS - Result is below the acceptance limit, AL = TL

FAIL - Result is above the acceptance limit, AL = TL



Note 7 Uncertainty of measurement

Flammability - Afterflame/Drip Exiting Time \pm -0.7sec, Burnlength \pm -0.1in, Burn Rate \pm 0.1in/min

Smoke Emission - +/- 4%, Toxic Gas Emission - +/- 15%