



AIM COMPOSITES LTD

Pembroke Avenue, Waterbeach, Cambridge CB5 9QR
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CERTIFICATE OF TEST

NO. LAB. CT.

00848

Issued under CAA authority reference AI/8340/74

CUSTOMER

CONTRACT / ORDER NO.

HI-BOND TAPES LTD.,
1 CRUCIBLE ROAD,
PHOENIX PARKWAY,
CORBY,
NORTHANTS NN17 5TS

508

ITEM / MATERIAL DESCRIPTION

FOAMED ACRYLIC TAPE VST 6064W FR

CUSTOMER RELEASE NOTE / ADVICE NOTE NO.

TEST STANDARD / SPECIFICATION

ISSUE / AMENDMENT NO.

FAR 25.853 JAR 25.853
ABD0031

Amdt. 25-83 Change 15
Iss.E

SUMMARY OF RESULTS

PASSED FLAMMABILITY REQUIREMENTS OF FAR/JAR 25.853(a) APP.F Pt.I(a)(1)(ii), SMOKE EMISSION REQUIREMENTS OF FAR/JAR 25.853(d) APP.F Pt.V(b) AND ABD0031 para.7.3.2 AND TOXIC GAS EMISSION REQUIREMENTS OF ABD0031 para.7.4.

FOR DETAILED RESULTS SEE TEST REPORT NO.

R18525/F attached

Certified that the above mentioned specimens / parts / materials / systems* have been tested / examined in accordance with the terms of the contract / order applicable thereto and the requirements of the Civil Aviation Authority relating to the testing of such specimens / parts / materials / systems. This Certificate does not relate to the standard or quality of manufacture of the item / material except as may be specified in the test contract / order.

Signed  Date 15/05/03

For and on behalf of AIM COMPOSITES LTD



FST 5258

Material Description:
FOAMED ACRYLIC TAPE VST 6064W FR

Report Number:
R18525/F

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Purchase Order No.
508

Usage:

Manufacturer/Supplier :
HI-BOND TAPES Ltd.,
1 CRUCIBLE ROAD,
PHOENIX PARKWAY, CORBY
NORTHANTS, NN17 5TS

Model/Program:

Test Location : **AIM Composites Ltd,**
Pembroke Avenue,
Waterbeach, Cambridgeshire, CB5 9QR
Tel: 01223 441000 Fax: 01223 862336
E-mail: testing@aimcomposites.com

Work Order No:
L3240

Release Certificate No:

Tested by: J. BARNES



Signature: *J. Barnes*

Approved by : D.J.DREWRY

Signature : *D.J. Drewry*



Test Date:
14/05/03

Test Method		Test Requirements (Maximum Average)								
Pass/ Fail	Reqd. Tests	Test (FAR / JAR 25.853 & 25.855)	After Flame	Burn Length	Drip Exting	Burn Rate	Flame Penetr'n	After Glow	OSU Total	OSU Peak
		F1 FAR/JAR 25.853(a) - 60s Vert App F Pt I(a)(1)(i)	15 sec	6 in	3 sec					
Pass	√	F2 FAR/JAR 25.853(a) - 12s Vert App F Pt I(a)(1)(ii)	15 sec	8 in	5 sec					
		F3 FAR/JAR 25.853(a) -15s Horiz App F Pt I(a)(1)(iv)				2.5 in/min				
		F4 FAR/JAR 25.853(a) -15s Horiz App F Pt I(a)(1)(v)				4 in/min				
		F5 FAR/JAR 25.855(d) - 30s 45° App F Pt I(a)(2)(ii)	15 sec				None	10 Sec		
		F6 FAR/JAR 25.869(a)(4) - 30s 60° App F Pt I(a)(3)	30 sec		3 sec					
		F7 FAR/JAR 25.853(d) - Heat Release App F Pt IV							65 kWmin/m ²	65 Kw/m ²
Pass	√	F8 FAR/JAR 25.853(d)-Smoke Density App F Pt V	Flaming Mode D _s 200 after 4 minutes.							
Pass	√	F9.ABD0031 / AT51000 / D6-51377 - Smoke Density	Flaming / Non-Flaming Mode D _s 200/200 after 4 minutes.							
Pass	√	F10. ABD0031 - Toxic Gas Emission AT51000 / D6-51377	CO - 1000 3500 / 3500	HCN - 150 150 / 150	HF - 100 100 / 200	HC1 - 150 150 / 500	SO2 - 100 100 / 100	NOx - 100 100 / 100		

COMMENTS:

RESULT SUMMARY: PASSED FLAMMABILITY REQUIREMENTS OF FAR / JAR 25.853(a) APP.F Pt.I(a)(1)(ii), SMOKE EMISSION REQUIREMENTS OF FAR / JAR 25.853(d) APP.F Pt.V(b) AND ABD0031 para.7.3.2 AND TOXIC GAS EMISSION REQUIREMENTS OF ABD0031 para.7.4.



FST 5258

Material Description:
FOAMED ACRYLIC TAPE VST 6064W FR

Report Number:
R18525/F
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Purchase Order No:
508

Work Order No:
L3240

Usage:

Manufacturer/Supplier :
HI-BOND TAPES Ltd.

Model/Program:

Test Location :

AIM Composites Ltd

Release Certificate No:

Tested by: J. BARNES

Signature: *J. Barnes*



Approved by: D.J.DREWRY

Signature: *D.J. Drewry*



Test Date:
14/05/03

Sample Number	Orientation	Test Method	After Flame (secs)	Burn Length (in)	Drip Exting Time (secs)	Burn Time (secs)	Burn Rate (in./min)	Flame Penetration	After Glow (Secs)	OSU Total (kWmin/m ²)	OSU Peak (kW/m ²)	D _s after 4 mins
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FAR/JAR Flammability Test Results

Bunsen Burner Temperature: 980°C

1	Vertical	F2	13.8	1.7	0							
2	Vertical	F2	2.4	2.3	0							
3	Vertical	F2	15.5	1.1	0							
4												
Average			10.6	1.7	0							

1												
2												
3												
4												
Average												

FAR/JAR Heat Release test results

1		F7										
2												
3												
4												
Average												

FAR/JAR Smoke Density Test Results

1		F8										84
2												98
3												93
4												
Average												92

ABD0031 / ATS1000 / D6-51377 Smoke Density & Toxic Gas Emission Test Results

Gas Concentrations (ppm)

Sample Number	Mode	Test Method	D _s Max		CO		HCN		HF		HCl		SO ₂		NO _x	
			Flam	Non-F	Flam	Non-Flam	Flam	Non-Flam	Flam	Non-Flam	Flam	Non-Flam	Flam	Non-Flam	Flam	Non-Flam
1			84	60	200	20	<2	<2	<1	<1	1	1	<1	<1	1	1
2			98	64	180	20	<2	<2	<1	<1	1	1	<1	<1	1	1
3			93	62	220	20	<2	<2	<1	<1	1	1	<1	<1	1	1
4																
Mean			92	62	200	20									1	1