



Fire Test Laboratory  
 Airbus Deutschland GmbH  
 Hünefeldstr. 1-5  
 D-28199 Bremen  
 Phone (+49) 421 538-5060/2484  
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Test Report No.: 07-0739

Type of test : Determination of the Specific Optical Density of Smoke

Test standard: JAR/FAR 25 , App. F, part V & AITM 2.0007  
 Material/Part Designation: Multifilament Polyester Fabric  
 Manufacturer Designation: HAI-50070  
 Thickness (mm): 0,33

Test results:

Run No.	Weight [g]	Flaming Mode Dm*	
		within 4 min	at [s]
1	1,5	17	240
2	1,5	7	240
3	1,5	28	240
4			

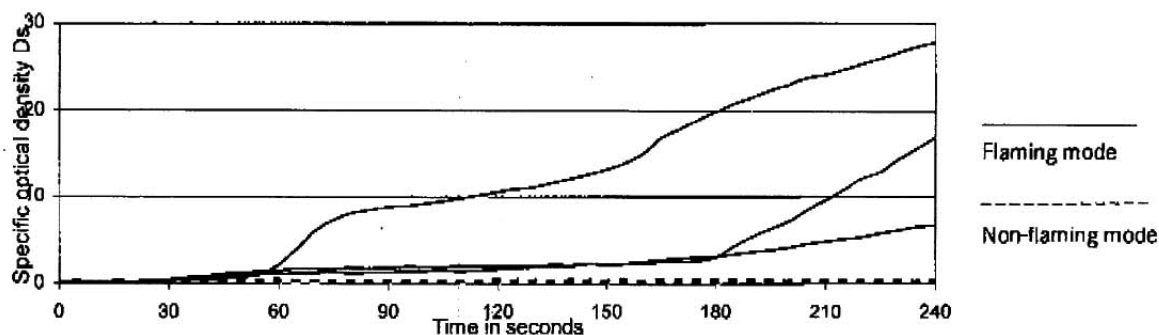
Run No.	Weight [g]	Non-Flaming Mode Dm*	
		within 4 min	at [s]
5	1,5	0	145
6	1,5	0	220
7	1,5	0	60
8			

Mean	17
Rel. standard deviation	50,8%
Airworthiness Limit:	—
Customer Limit:	200

Mean	0
Rel. standard deviation	23,6%
Airworthiness Limit:	—
Customer Limit:	200

\*Dm = Ds max = maximum specific optical density  
 Heatflux [W/cm²]: 2,481

Remarks:



The material/part has been tested in accordance with the above mentioned test standard

Date of test: 20. Jul. 07

Performed by: Nordmann

Checked: Menken

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Test Report No. : 07-0739

**Type of test:** Determination of the Toxic Components on Combustion Products

**Test standard:** AIM 3.0005  
**Material/Part Designation:** Multifilament Polyester Fabric  
**Manufacturer Designation:** HAI-50070

**Test results:** **Flaming Mode\***

Run No.	HCN Hydrogen Cyanide	CO Carbon Monoxide	NOx Nitrous Gases	SO2 Sulfur Dioxide	HF Hydrogen Fluoride	HCl Hydrogen Chloride
1	0	69	3	0	0	0
2	0	107	2	2	0	0
3						
4						
<b>Mean</b>	<b>0</b>	<b>88</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>0</b>
Airbus Limit	150	1000	100	100	100	150
Customer Limit	150	1000	100	100	100	150

**Non - Flaming Mode\***

Run No.	HCN Hydrogen Cyanide	CO Carbon Monoxide	NOx Nitrous Gases	SO2 Sulfur Dioxide	HF Hydrogen Fluoride	HCl Hydrogen Chloride
5	0	1	2	0	0	0
6	0	0	2	0	0	0
7						
8						
<b>Mean</b>	<b>0</b>	<b>1</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>0</b>
Airbus Limit	150	1000	100	100	100	150
Customer Limit	150	1000	100	100	100	150

\* All values in ppm.

3 samples only necessary if the concentration exceeds 50% of the maximum permitted value

	HCN	CO	NOx	SO2	HF	HCl
Analysis method	Dräger	Vario plus	Vario plus	Vario plus	Dräger	Dräger

**Remarks :**

The material/part has been tested in accordance with the above mentioned test standard

Date of test: 20. Jul. 07

Performed by: Nordmann

Checked: Menken

# Flammability Material Test Certificate Bunsen Burner Test Data Sheet

Test Laboratory  
HAM IQ/M-C

Design Organization Approval  
EASA.21J.019



Material Description  
Multifilament Polyester Fabric

Composition  
Nylon, black Width 1.140mm

Test Number  
5068/2007

Manufacturer  
Heinemann Aircraft Interiors

Customer/Specification

Application  
Thickness 0,38mm

Customer Part Number  
HAI-50070

Batch Number

Article Number

Weight

250gr/sqm

## Test Method CS/JAR/FAR 25.853

### Ignition Time

For Details refer to applicable Part of App. F

- 1. 60 sec Ignition Vertical Test
- 2. 12 sec Ignition Vertical Test
- 3. 15 sec Ignition Horizontal Test 2,5 inch/min
- 4. 15 sec Ignition Horizontal Test 4 inch/min
- 5. 30 sec Ignition - 45 Degree
- 6. Blanket Test

### Material Definitions

- Interior Panels; Galleys; Under Seat Stowages
- Floor Coverings; Textils; Decorative Parts; Galley Furnishings; Cushions; Electrical Conduits; Insulations; Ducts; Cargo Liners
- Clear Windows; Signs; lighted Instrument
- Small Parts; Knobs; Clips; Electrical Parts, etc.
- Cargo Liners; B + E
- Passenger Blanket

## Test Requirement (Max Avg) Conditioning 24 h

Flame Extinguishing	Burn Length	Drip Extinguishing	Burn Rate	Flame Penetration	After Glow
15 sec	6 inches (152 mm)	3 sec			
15 sec	8 inches (203 mm)	5 sec			
			2.5 inch/min		
			4 inch/min		
15 sec				none	10 sec
15 sec		3 sec			

## Test Results

Sample Number	Flame Extinguishing	Burn Length	Drip Extinguishing	Burn Rate	Flame Penetration	After Glow	Test Direction
1.	0 sec	70 mm	no drip	inch/min		sec	Lay or Weft/Fill
2.	0 sec	70 mm	no drip	inch/min		sec	Lay or Weft/Fill
3.	0 sec	70 mm	no drip	inch/min		sec	Lay or Weft/Fill
Average	0 sec	70 mm	no drip	inch/min		sec	Lay or Weft/Fill
1.	0 sec	75 mm	no drip	inch/min		sec	Warp
2.	0 sec	75 mm	no drip	inch/min		sec	Warp
3.	0 sec	75 mm	no drip	inch/min		sec	Warp
Average	0 sec	75 mm	no drip	inch/min		sec	Warp

Test Date : 19.07.2007

Tested by : Dapwijk

Pass

Fail

Approved :

Engineering/Work Order

Comments