

**TEST CERTIFICATE**

No. 05070/1

Testing to IMO Resolution A.652(16) Recommendation on Fire Test Procedures
for Upholstered Furniture (Method of test for the Ignitability by
smokers' materials of upholstered composites for seating)

SAMPLE INFORMATION

Fabric Reference **Just Colour.**
Dimensions **500cm by full width (140cm)**
Date Received **7.2.05**
Pre-treatment **Water soaking according to BS 5651 : 1988, Clause 3**
Conditioning **Not less than 72 hrs indoor ambient, followed by at least 16hrs at 20±2°C, 50±20%RH**

TESTING

Following the pre-treatment indicated above, the material was conditioned and tested according to the test procedure specified in Clause 8 of IMO Resolution A.652(16) Recommendation on Fire Test Procedures for Upholstered Furniture.

The test prescribes methods for assessing the ignitability of material combinations, e.g. covers and fillings used in upholstered seating, when subjected to either a smouldering cigarette or a lighted match as might be applied accidentally in the use of upholstered seats. It does not cover ignition caused by deliberate acts of vandalism.

COMBINATION OF MATERIALS

The sample was tested over a combustion modified foam with a density of approximately 24kg/m³, reference CME24H.

RESULTS

Both cigarette applications showed no flaming or smouldering one hour after placement; both match applications extinguished within 120 seconds from removal of the burner tube. No test showed progressive smouldering on final inspection.

CONCLUSION

The sample received meets the requirements of the 'Smouldering Cigarette Test' of IMO Resolution A.652(16) Recommendation on Fire Test Procedures for Upholstered Furniture

The sample received meets the requirements of the 'Butane Flame Test' of IMO Resolution A.652(16) Recommendation on Fire Test Procedures for Upholstered Furniture

The fabric may be labelled "IMO FTPC Part 8".

Mr J Leadbeater LL.B DTS
Technical Manager
END OF REPORT

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TEST CERTIFICATE

No. 05070/2

Testing to CAA Spec 8 (Vertical Test), Issue 2, 1973

Issued under the Authority of CAA Approval Reference AI/9606/97

SAMPLE INFORMATION

Fabric Reference **Just Colour.**
Dimensions **500cm x 140cm (Full width)**
Date Received **7.2.05**
Pre-treatment **None**
Conditioning **Not less than 24 hours at 21±2°C, 50±5% RH.**

TESTING

Three warp and three weft specimens were conditioned and tested in accordance with Clause 2.2 (b) of the above Specification using a 12 second flame application time. The results obtained are shown in the Table below:

Specimen No.	LENGTH DIRECTION			WIDTH DIRECTION		
	1	2	3	1	2	3
After-flame time (sec)	0	6	4	1	2	0
After-glow time (sec)	0	0	0	0	0	0
Drippings flame time (sec)	Did not drip			Did not drip		
Burn length (mm)	90	98	94	98	96	94

The Average Combined after-flame and after-glow time is 2.2 seconds, and the Average Burn Length is 95mm.

The above test has been carried out in compliance with the clients order and the requirements of the Civil Aviation Authority. The test results do not in any way confer approval of the quality of manufacture of the material.

CONCLUSION

The sample tested meets the requirements of CAA Spec 8 (Vertical Test) and FAR/JAR 25.853a, Appendix F, Part 1 (A) 1 (ii).

Mr J Leadbeater LL B DTS
Technical Manager
END OF REPORT

**TEST CERTIFICATE**

No. 05070/4

Testing to BS 7176 : 1995 Specification for Resistance to Ignition for Upholstered Furniture for Non-domestic Seating by Testing Composites using BS EN 1021-1 : 1994, BS EN 1021-2 : 1994 and BS 5852 : 1990

SAMPLE INFORMATION

Fabric Reference **Just Colour.**
Dimensions **500cm by 140cm (Full width)**
Date Received **7.2.05**
Pre-treatment **BS EN 1021-1 & -2 : 1994, Annex D and BS 5851 : 1989, Clause 3 as appropriate**
Conditioning **To at least the minimum requirements of BS EN 1021-1 & -2 : 1994, Clause 7 and BS 5852 : 1990, Clause 5 as appropriate**

TESTING

The material was tested according to BS EN 1021-1 : 1994 Furniture - Assessment of the ignitability of upholstered furniture, Smouldering Cigarette; BS EN 1021-2 : 1994 Furniture - Assessment of the ignitability of upholstered furniture, Match Flame Equivalent and BS 5852 : 1990, Section 4, Methods of Test for the Assessment of the ignitability of upholstered seating by smouldering and flaming ignition Sources, using Ignition Source Crib 5.

For BS EN 1021-1 and -2 : 1994 the test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use. The crib test results relate only to the ignitability of the combinations of upholstery composites (section 4 of BS 5852 : 1990) under the particular conditions of test stated; they are not intended as a means of assessing the full potential fire hazard of the materials or products in use.

COMBINATION OF MATERIALS

The sample was tested over combustion modified foam with a density of approximately 24kg/m³, reference CME24H.

RESULTS

Specimen No.	1	2
Smouldering Cigarette	Non-ignition	Non-ignition
Match Flame Equivalent	Non-ignition	Non-ignition
Ignition Source 5	Non-ignition	Non-ignition

CONCLUSION

The sample received meets the requirements of BS 7176 : 1995 Specification for Resistance to Ignition for Upholstered Furniture for Non-domestic Seating by Testing Composites and should indicate 'Complies with BS 7176 : 1995 Direct test for Medium hazard (not recommended for use in higher hazard areas)'.

Mr J Leadbeater LL.B DTS
Technical Manager

END OF REPORT

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TEST CERTIFICATE

No. 06660/18

Testing to IMO Resolution A.652(16) Recommendation on Fire Test Procedures
for Upholstered Furniture (Method of test for the ignitability by
smokers' materials of upholstered composites for seating)

SAMPLE INFORMATION

Fabric Reference: **Just Colour.**
Dimensions: **200cm by full width (140cm)**
Date Received: **7.11.06**
Pre-treatment: **Water soaking according to BS 5651 : 1989, Clause 3**
Conditioning: **Not less than 72 hrs indoor ambient, followed by at least 16hrs at 20±2°C, 50±20%RH**

TESTING

Following the pre-treatment indicated above, the material was conditioned and tested according to the test procedure specified in Clause 8 of **IMO Resolution A.652(16) Recommendation on Fire Test Procedures for Upholstered Furniture.**

The test prescribes methods for assessing the ignitability of material combinations, e.g. covers and fillings used in upholstered seating, when subjected to either a smouldering cigarette or a lighted match as might be applied accidentally in the use of upholstered seats. It does not cover ignition caused by deliberate acts of vandalism.

COMBINATION OF MATERIALS

The sample was tested over a combustion modified foam with a density of approximately 24kg/m³, reference CME24H.

RESULTS

Both cigarette applications showed no flaming or smouldering one hour after placement; both match applications extinguished within 120 seconds from removal of the burner tube. No test showed progressive smouldering on final inspection.

CONCLUSION

The sample received meets the requirements of 'Smouldering Cigarette Test' of IMO Resolution A.652(16) Recommendation on Fire Test Procedures for Upholstered Furniture

The sample received meets the requirements of 'Butane Flame Test' of IMO Resolution A.652(16) Recommendation on Fire Test Procedures for Upholstered Furniture

The fabric may be labelled "IMO FTFC Part 8".

Mr J Leadbeater LL.B DTS
Technical Manager
END OF REPORT