

TEST CERTIFICATE

No. F21445/5

Testing to BS 7176 : 2007+A1:2011 Specification for Resistance to Ignition for Upholstered Furniture for Non-domestic Seating by Testing Composites using BS EN 1021-1 : 2006, BS EN 1021-2 : 2006 and BS 5852 : 2006

SAMPLE INFORMATION

Client **Mario Sirtori S.p.A. Via Papa Giovanni XXIII
Via Papa Giovanni XXIII, 10, 23845 - Costamasnaga (LC) - Italy**

Sample type **Fabric**

Details supplied by the client **Linvira CS**

Date Received **1/11/2021**

Pre-treatment **None - the fabric was stated to be inherently flame retardant**

Conditioning **BS EN 1021-1 & -2 : 2006, Clause 7 and BS 5852 : 2006, Clause 10 as appropriate**

TESTING

The material was tested according to **BS EN 1021-1 : 2006 Furniture - Assessment of the ignitability of upholstered furniture, Smouldering Cigarette; BS EN 1021-2 : 2006 Furniture - Assessment of the ignitability of upholstered furniture, Match Flame Equivalent and BS 5852 : 2006, Clause 11, 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 : 2006 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 (clause 4 of BS 5852 : 2006) 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 36 kg/m³, Carpenter RX36125.

RESULTS

Specimen number	1	2	3
Smouldering Cigarette	Non-ignition	Non-ignition	
Match Flame Equivalent	Non-ignition	Non-ignition	Non-ignition
Ignition Source 5	Ignition	Not tested	

CONCLUSION

The sample received meets the requirements of BS 7176 : 2007+A1:2011 Specification for Resistance to Ignition for Upholstered Furniture for Non-domestic Seating by Testing Composites and should indicate 'Complies with BS 7176 : 2007+A1:2011 Direct test for low hazard (not recommended for use in higher hazard areas)' .



Mr J Firth
Technical Manager

U or UU indicates a test result within our estimate of uncertainty of the specification limit - see the report appendix for more information.
#=Subcontracted to a UKAS accredited Test House. The results on this test report only relate to the specimens tested above.

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END OF REPORT

U or UU indicates a test result within our estimate of uncertainty of the specification limit - see the report appendix for more information.
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APPENDIX TO TEST CERTIFICATE

Job number: F21445/5

OVERVIEW

This appendix is to be read in conjunction with the related test certificate. The test certificate gives the details of the test that has been completed and client information.

This appendix shows the decision rule and measurement uncertainty for this job number. If allowing for the measurement uncertainty affects conformity to a specification limit then a modified statement of conformity is reported in this appendix. This indicates the confidence level in the reported result. The decision rule used to make this assessment is also reported.

This method of reporting is a requirement of our accreditation against 17025:2017. This appendix is written using the guidelines shown in the ILAC document, ILAC-G8:09/2019 Guidelines on Decision Rules and Statements of Conformity. This document can be found at https://ilac.org/latest_ilac_news/revised-ilac-g8-published/.

The conformity statements are based on the examples found in the UKAS document LAB 48 Decision Rules and Statements of Conformity.

DECISION RULES

All uncertainties are estimated with a coverage factor of $k = 2$ which equates to a confidence level of approximately 95%.

Some tests have more than one decision rule, any of which may apply depending on the outcome of the test.

Cigarette test, source 0

The pass criteria for this test is smouldering of less than 60 minutes.

Our estimate of measurement uncertainty for this test is +/- 2 seconds. This means that a result within 2 seconds of the 60 minute boundary will be reported as uncertain.

Match test, source 1

The pass criteria for these tests is smouldering of less than 60 minutes.

Our estimate of measurement uncertainty for this test is +/- 2 seconds. This means that a result within 2 seconds of the 60 minute boundary will be reported as uncertain.

The pass criteria for these tests is flaming of less than 120 seconds.

Our estimate of measurement uncertainty for this test is +/- 2 seconds. This means that a result within 2 seconds of the 120 second boundary will be reported as uncertain.

Crib 5 test

The pass criteria for these tests is flaming of less than 10 minutes.

Our estimate of measurement uncertainty for this test is +/- 2 seconds. This means that a result within 2 seconds of the 10 minute boundary will be reported as uncertain.

The pass criteria for these tests is smouldering of less than 60 minutes.

Our estimate of measurement uncertainty for this test is +/- 2 seconds. This means that a result within 2 seconds of the 60 minutes boundary will be reported as uncertain.

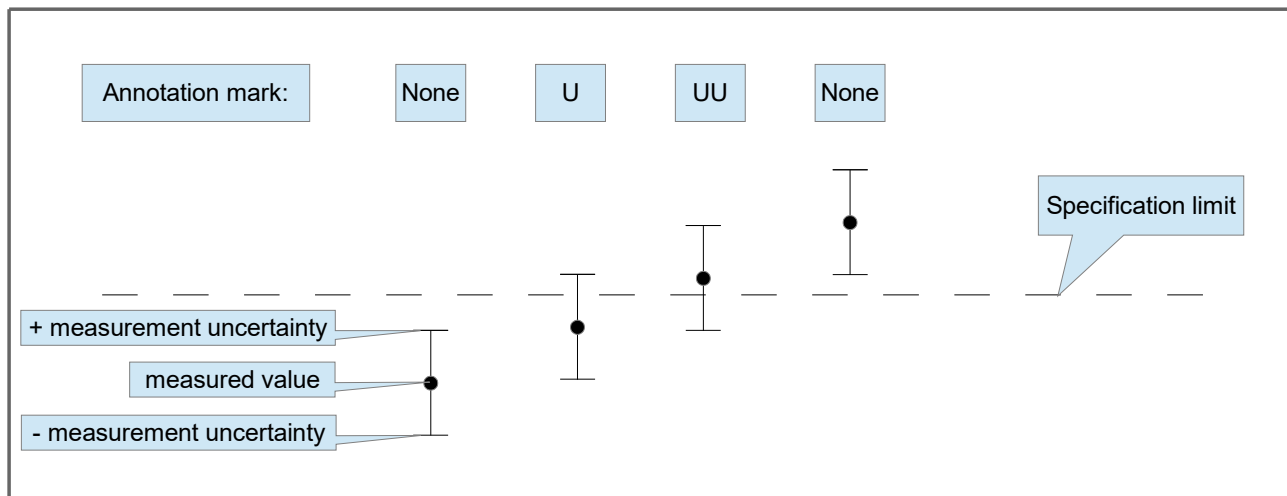
RESULT MODIFIED BY MEASUREMENT UNCERTAINTY

The conclusion statement on the test report is modified as follows:

- The reported conclusion has no annotation mark
The test result is below the specification limit shown in the test standard even with allowance for the measurement uncertainty. The result does comply with the specification based on the stated level of confidence.
- The reported conclusion is annotated with “U”
The test result is below the specification limit but by a margin less than the measurement uncertainty. It is therefore not possible to state compliance based on the stated level of confidence.
- The reported conclusion is annotated with “UU”
The test result is above the specification limit but by a margin less than the measurement uncertainty. It is therefore not possible to state non-compliance based on the stated level of confidence.
- The reported conclusion has no annotation mark
The test result is above the specification limit even with allowance for the measurement uncertainty. The result does not comply with the specification based on the stated level of confidence.

Each of these statements is illustrated on the following diagram.

ILLUSTRATION OF POSSIBLE TEST RESULTS



INTERPRETING THE RESULTS

Using the annotation marks described above, the following confidence levels apply to the illustrated result:

- The reported conclusion has no annotation mark
The test is reported as a Pass. The risk of this representing a false Pass result is less than 2.5%.
- The reported conclusion is annotated with “U”
The test is reported as a Conditional Pass. The risk of accepting this result as a false Pass result is up to 50%.
- The reported conclusion is annotated with “UU”
The test is reported as a Conditional Fail. The risk of accepting this result as a false Fail result is up to 50%.
- The reported conclusion has no annotation mark
The test is reported as a fail. The risk of this representing a false Fail result is less than 2.5%.

If you wish to accept the higher level of risk of a false Pass classification, results marked with a single annotation mark “U” could be considered to be a Pass.

If you wish to accept the higher level of risk of a false Fail classification, results marked with an annotation mark “UU” could be considered to be a Fail.

- The reported conclusion has no annotation mark
The test is reported as a Pass. The risk of this representing a false Pass result is less than 2.5%.
- The reported conclusion is annotated with “U”
The test is reported as a Conditional Pass. The risk of accepting this result as a false Pass result is up to 50%.
- The reported conclusion is annotated with “UU”
The test is reported as a Conditional Fail. The risk of accepting this result as a false Fail result is up to 50%.
- The reported conclusion has no annotation mark
The test is reported as a fail. The risk of this representing a false Fail result is less than 2.5%.

If you wish to accept the higher level of risk of a false Pass classification, results marked with a single annotation mark “U” could be considered to be a Pass.

If you wish to accept the higher level of risk of a false Fail classification, results marked with an annotation mark “UU” could be considered to be a Fail.

- The reported conclusion has no annotation mark
The test is reported as a Pass. The risk of this representing a false Pass result is less than 2.5%.
- The reported conclusion is annotated with “U”
The test is reported as a Conditional Pass. The risk of accepting this result as a false Pass result is up to 50%.
- The reported conclusion is annotated with “UU”
The test is reported as a Conditional Fail. The risk of accepting this result as a false Fail result is up to 50%.
- The reported conclusion has no annotation mark

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The test is reported as a fail. The risk of this representing a false Fail result is less than 2.5%.

If you wish to accept the higher level of risk of a false Pass classification, results marked with a single annotation mark "**U**" could be considered to be a Pass.

If you wish to accept the higher level of risk of a false Fail classification, results marked with an annotation mark "**UU**" could be considered to be a Fail.