

TEST CERTIFICATE
No. F213416/1

Testing to BS EN 1021- Part 1 : 2014 and BS EN 1021- Part 2 : 2014 Furniture- Assessment of the ignitability of upholstered furniture

SAMPLE INFORMATION

Client **Zimmer + Rohde UK Ltd.**
15 Design Centre, Chelsea Harbour, London, SW10 0XE

Sample type **Fabric**

Details supplied by the client **10747, Costa, 100% PES, Coating: 95% PVC, 5% PU**

Dimensions **300cm by 148cm (Full width)**

Date received **8/10/2021**

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

Conditioning **To at least the minimum requirements of BS EN 1021 Parts 1 & 2 : 2014, Clause 7**

TESTING

The material was tested according to **BS EN 1021-1 : 2014 and BS EN 1021-2 : 2014 Furniture - Assessment of the ignitability of upholstered furniture, Part 1 - Smouldering Cigarette ignition source and Part 2 - Match Flame equivalent.**

COMBINATION OF MATERIALS

The sample was tested over non-fire retardant polyurethane foam with a density of 20 - 22 kg/m³

RESULTS

| Specimen number | Time to extinction | | | Result | | |
|------------------------------|--------------------|------|------|--------------|--------------|--------------|
| | 1 | 2 | 3 | 1 | 2 | 3 |
| Smouldering cigarette (min) | FTSL | FTSL | FTSL | Non-ignition | Non-ignition | Non-ignition |
| Match flame equivalent (sec) | 0 | 0 | 0 | Non-ignition | Non-ignition | Non-ignition |

The above 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.

CONCLUSION

The sample received meets the requirements of BS EN 1021-1 : 2014 Part 1 smouldering cigarette ignition source.

The sample received meets the requirements of BS EN 1021-2 : 2014 Part 2 match flame equivalent ignition source.



Mr J Firth
Technical Manager
END OF REPORT

APPENDIX TO TEST CERTIFICATE

Job number: F213416/1

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.

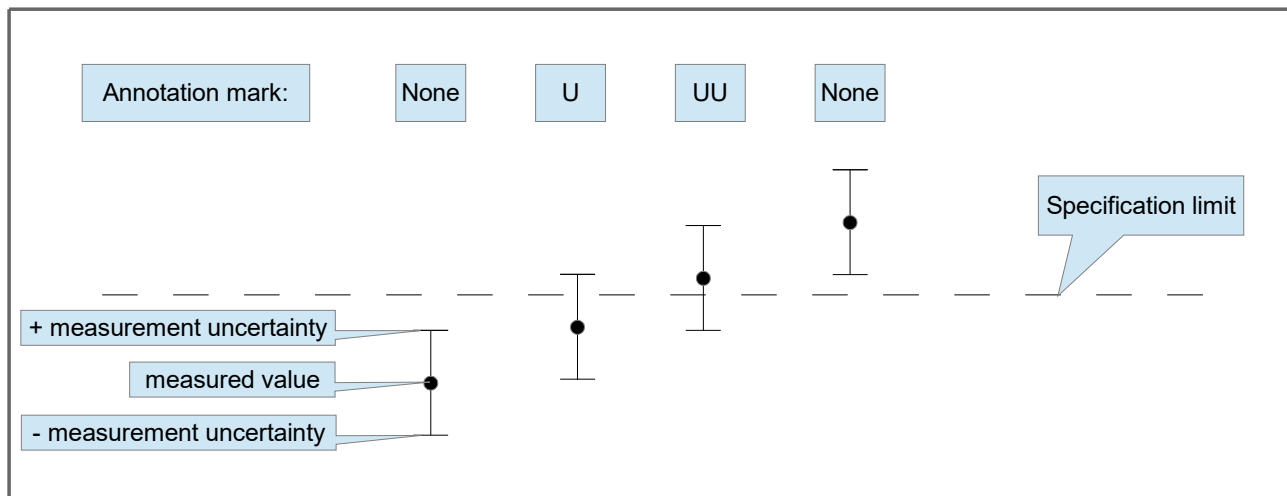
RESULT MODIFIED BY MEASUREMENT UNCERTAINTY

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.