

TEST CERTIFICATE

No. F21154/4

Testing to Part 8 of the 2010 FTP Code Fire Test Procedures
for the ignitability by smokers' materials of upholstered composites for seating

SAMPLE INFORMATION

Client **Kobefab International**
B.V.Vest 62, 5555 XP, Valkenswaard, 5550 AG, The Netherlands.

Sample type **Fabric**
Details supplied by the client **Lazuli FR,**
Mass per unit area: 559 g/m² Thickness: Not Given
Colour and tone: Not Given
FR treatment: Backcoated Composition: 43% Pes, 41% Pan, 16% Vi.
Yarn density: Not Given Yarn number count: Not Given

Fabric weight **Approximately 559 g/m²**
Dimensions **500cm by 150cm (Full width)**
Date Received **15/4/2021**

TESTING

Following the pre-treatment indicated above, the material was conditioned and tested according to the test procedure specified in Clause 7 of **Part 8 of the 2010 FTP Code Fire Test Procedures for the ignitability by smokers' materials of upholstered composites for seating.**

The cigarettes used for this test meet the requirements shown in Annex 4.2.1 of the code.

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 non-fire retardant polyurethane foam with a density of approximately 20 - 22 kg/m³ as specified in Appendix A3 of the above Resolution

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.

"The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use"

CONCLUSION

The sample received meets the requirements of 'Smouldering Cigarette Test' of Part 8 of the 2010 FTP code Fire Test for Upholstered Furniture

The sample received meets the requirements of 'Propane Flame Test' of Part 8 of the 2010 FTP code Fire Test for Upholstered Furniture

The fabric may be labelled "IMO FTPC Part 8", using non-fire retardant polyurethane foam.



Mr J Firth
Technical Manager
END OF REPORT

Smouldering Cigarette Test

Specimen number	1	2
Duration of smouldering (min)	21	23
Damage width (mm)	15	17
Damage length (mm)	71	70
Ignition occurred	No	No
Cover split	No	No
Melting	No	No
Dripping	No	No
Charring	Yes	Yes
Progressive smouldering at 60 minutes	No	No
Result	Pass	Pass

Propane Flame Test

Specimen number	1	2
Time to ignition (sec)	5	5
Duration of flaming (sec)	18	12
Duration of smouldering (sec)	0	0
Damage width (mm)	27	33
Damage length (mm)	132	130
Cover split	Yes	Yes
Melting	Yes	Yes
Dripping	No	No
Charring	Yes	Yes
Smouldering at 120 sec.	No	No
Smoke or heat at 15 min.	No	No
Result	Pass	Pass

APPENDIX TO TEST CERTIFICATE

Job number: F21154/4

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.

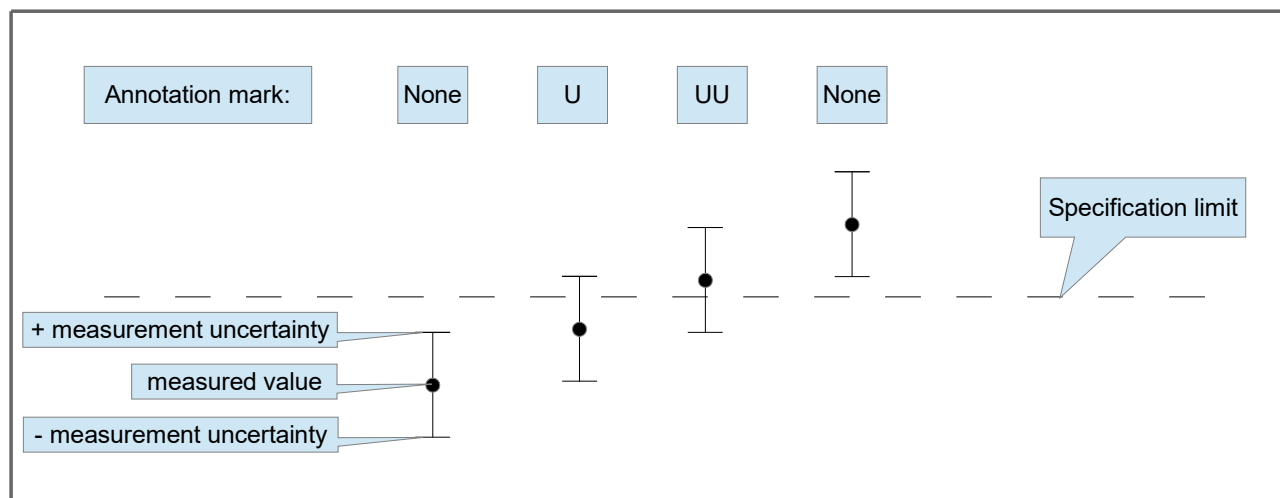
RESULT MODIFIED BY MEASUREMENT UNCERTAINTY

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.