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Your notice of	Your reference	Date
09-12-2013		09-01-2014

Analysis Report 13.05784.02

Required tests :

California Technical Bulletin 117 Section E Part I DIN 4102-1B2 (1998) EN 1021-1 (2006)	Determination of the flammability of upholstery fabrics Burning behaviour - B2 Furniture - Assessment of the ignitability of upholstered furniture - Ignition source : smouldering cigarette
UK Furniture and Furnishings (Fire) (Safety) regulations (1988) No. 1324 EN 1021-2 (2006)	The Furniture and Furnishings (Fire) (Safety) regulations : 1988 No. 1324 - Schedule 4 part I – The cigarette test - BS 5852 part 1 (1979) Furniture - Assessment of the ignitability of upholstered furniture – Ignition source : match flame equivalent
UK Furniture and Furnishings (Fire) (Safety) regulations (1988) No. 1324	The Furniture and Furnishings (Fire) (Safety) regulations : 1988 No. 1324 - Schedule 5 part I – The match test - BS 5852 part 1 (1979)

Identification number	Information given by the client	Date of receipt
T1319013	Triangle Chalk	09-12-2013

VAT BE 0459.218.289

Fin. Acc. 210-0472965-45

IBAN BE44 2100 4729 6545

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Order responsible

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The results of the analysis cover the received samples. Centexbel is not responsible for the representativeness of the samples. In assessing compliance with the specifications, we did not take into account the uncertainty on the test results.

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Reference: T1319013 - Triangle Chalk

Determination of the flammability of upholstery fabrics

Date of ending the test 02-01-2014
 Standard used California Technical Bulletin 117 Section E Part I

Deviation from the standard -

Conditioning The test specimens are dried in an oven for 30 minutes at 105°C and then cooled in a desiccator for at least 15 minutes.

The test specimens have not been cleaned nor submitted to an accelerated ageing procedure.

Flame application time (s) 1

Type of fabric tested Plain surface textile fabric

Front - length

	1	2	3	4	5
Ignition	no	no	no	no	no
Burn time (s) (°)	*	*	*	*	*
Surface flash	no	no	no	no	no
Base fabric ignited or fused	no	no	no	no	no

(°) = time to burn stop cord

* = stop cord intact

Front - width

	1	2	3	4	5
Ignition	no	no	no	no	no
Burn time (s) (°)	*	*	*	*	*
Surface flash	no	no	no	no	no
Base fabric ignited or fused	no	no	no	no	no

(°) = time to burn stop cord

* = stop cord intact

Back - length

	1	2	3	4	5
Ignition	no	no	no	no	no
Burn time (s) (°)	*	*	*	*	*
Surface flash	no	no	no	no	no
Base fabric ignited or fused	yes #	yes #	yes #	yes #	yes #

(°) = time to burn stop cord

* = stop cord intact

only the layer in contact with the flame

Back - width

	1	2	3	4	5
Ignition	no	no	no	no	no
Burn time (s) (°)	*	*	*	*	*
Surface flash	no	no	no	no	no
Base fabric ignited or fused	yes #	yes #	yes #	yes #	yes #

(°) = time to burn stop cord

* = stop cord intact

only the layer in contact with the flame

Normal flammability, Class 1 in accordance with CS 191-53

- Plain surface textile fabric

time of flame spread is 4 seconds or more.

- Raised surface textile fabric

time of flame spread is more than 7 seconds

or when they burn with a rapid surface flash (from 0 to 7 seconds), provided the intensity of the flame is so low as not to ignite or fuse the base fabric.

Requirement: class 1 - normal flammability in accordance with CS 191-53

Conclusion

PASS

Reference: T1319013 - Triangle Chalk

Burning behaviour - B2

Date of ending the test 06-01-2014
Standard used DIN 4102-1B2 (1998)

Deviation from the standard -

Conditioning 23°C, relative humidity 50%

Ignition Surface

Length

	1	2	3	4	5
Time to reach 150 mm mark (s) °	*	*	*	*	*
Ignition filter paper within 20 s after flame application	no	no	no	no	no

° tip of the flame

* = time to reach the mark > 20 s or mark not reached

Width

	1	2	3	4	5
Time to reach 150 mm mark (s) °	*	*	*	*	*
Ignition filter paper within 20 s after flame application	no	no	no	no	no

° tip of the flame

* = time to reach the mark > 20 s or mark not reached

Criteria

- time to reach the mark > 20 s for all test specimens

Conclusion B2

Reference: T1319013 - Triangle Chalk

Furniture - Assessment of the ignitability of upholstered furniture - Ignition source : smouldering cigarette

Date of ending the test 20-12-2013
Standard used EN 1021-1 (2006)

Deviation from the standard -

Conditioning 23°C, relative humidity 50%

The following 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.

Water soaking of the cover No
Filling T 23140 (Recticel) - non-fire retardant foam - $\pm 22 \text{ kg/m}^3$

	1	2
Smouldering criteria		
Unsafe escalating combustion	no	no
Test assembly consumed	no	no
Smoulders to extremities	no	no
Smoulders through thickness	no	no
Smoulders more than 1 hour	no	no
Final examination / active smouldering	no	no
Flaming criteria		
Occurrence of flames	no	no
	non-ignition	non-ignition

Conclusion Non-ignition

Reference: T1319013 - Triangle Chalk

The Furniture and Furnishings (Fire) (Safety) regulations : 1988 No. 1324 - Schedule 4 part I – The cigarette test - BS 5852 part 1 (1979)

Date of ending the test 20-12-2013
 Standard used UK Furniture and Furnishings (Fire) (Safety) regulations (1988) No. 1324
 Deviation from the standard -
 Conditioning 23°C, relative humidity 50%

The following 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.

Water soaking of the cover No
 Filling T 23140 (Recticel) * - non-fire retardant foam - ± 22 kg/m³

* The filling complies with the requirements as indicated in schedule 5 part 1 of the UK Furniture and Furnishings (Fire) (Safety) Regulations 1988

	1	2
Smouldering criteria		
Unsafe escalating combustion	no	no
Test assembly consumed	no	no
Smoulders to extremities	no	no
Smoulders through thickness	no	no
Smoulders more than 1 hour	no	no
Final examination / active smouldering	no	no
Flaming criteria		
Occurrence of flames	no	no
	non-ignition	non-ignition

Conclusion Non-ignition

Reference: T1319013 - Triangle Chalk

Furniture - Assessment of the ignitability of upholstered furniture – Ignition source : match flame equivalent

Date of ending the test 20-12-2013
 Standard used EN 1021-2 (2006)
 Deviation from the standard -
 Conditioning 23°C, relative humidity 50%

The following 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.

Water soaking of the cover No
 Filling T 23140 (Recticel) - non-fire retardant foam - ± 22 kg/m³
 Flame application time (s) 15

	1	2	3
Smouldering criteria			
Unsafe escalating combustion	no	no	no
Test assembly consumed	no	no	no
Smoulders to extremities	no	no	no
Smoulders through thickness	no	no	no
Smoke/heat/glowing more than 60 min	no	no	no
Final examination / active smouldering	no	no	no
Flaming criteria			
Unsafe escalating combustion	no	no	no
Test assembly consumed	no	no	no
Flames to extremities	no	no	no
Flames through thickness	no	no	no
Flaming > 120 s	no	no	no
Afterflame time (s)	0	4	7
	non-ignition	non-ignition	non-ignition

Conclusion Non-ignition

Reference: T1319013 - Triangle Chalk

The Furniture and Furnishings (Fire) (Safety) regulations : 1988 No. 1324 - Schedule 5 part I – The match test - BS 5852 part 1 (1979)

Date of ending the test 20-12-2013
Standard used UK Furniture and Furnishings (Fire) (Safety) regulations (1988) No. 1324

Deviation from the standard -

Conditioning 23°C, relative humidity 50%

The following 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.

Water soaking of the cover No
Filling T 23140 (Recticel) * - non-fire retardant foam - ± 22 kg/m³

* The filling complies with the requirements as indicated in schedule 5 part 1 of the UK Furniture and Furnishings (Fire) (Safety) Regulations 1988

Flame application time (s) 20

	1	2
Smouldering criteria		
Unsafe escalating combustion	no	no
Test assembly consumed	no	no
Smoke/heat/glowing more than 15 min	no	no
Final examination / active smouldering	no	no
Flaming criteria		
Unsafe escalating combustion	no	no
Test assembly consumed	no	no
Flaming > 120 s	no	no
Afterflame time (s)	6	8
	non-ignition	non-ignition

Conclusion Non-ignition