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Received: 01/16/2020 Completed: 01/17/2020 Letter: W P.O.#: JR **Test Report #:** 3-36659-0-Client's Cover Material: Relate.100% Trevira CS. Identification Tested For: Lone Henriksen Kev Test: CA TB 117-2013 (Section 1-Cover 275 Kvadrat A/S Fabric) Lundbergsvej 10 Tel: 011 45 89 53 18 66 Ext: 8400 Ebeltoft Denmark Fax: 011 45 89 53 18 00

CA TB 117 LE: 2013; V 1/19 PC: 24 hrs: 21° \pm 3°C; less than 55% RH SM/mg NTR 04/16

TEST PERFORMED: California Technical Bulletin 117-2013 - Requirements, Test Procedure and Apparatus for Testing the Smolder Resistance of Materials Used in Upholstered Furniture (June 2013 Version)

Section 1, Cover Fabric Test (Upholstery cover material is the outermost layer of fabric or related material used to enclose the main support system or upholstery materials, or both, used in the furniture item.)

REFERENCE: ASTM E1353-08ae1

IGNITION SOURCE: Cigarette

SPECIMEN TEST COMPOSITE:

Upholstery Cover Material: As described in "Client's Identification".

Standard Substrate Material: Non FR polyurethane foam, density 1.8 \pm 0.05 lb/ft³

BRIEF DESCRIPTION OF TEST: Miniature cushions are prepared using the client's cover fabric over the standard filling material. The vertical or back cushions measure $8" \times 8" \times 2"$. The horizontal or seat cushions measure $8" \times 5" \times 2"$.

A lighted cigarette is placed in the crevice formed by the vertical cushion and the horizontal cushion.

The test is terminated at 45 minutes if smoldering is no longer observed.

Test measurements and observations are recorded.

-- See Page 3 for "Results" and "Conclusion" --

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Received:01/16	Completed: 01/17/2020	Letter: W	JR	P.O.#:	Test Report #:	3-36659-0-
Client's Identification	Cover Material: Relate.100%	Trevira CS.				
Tested For: L	one Henriksen			Key Test: CA TB 117-2013 (Section 1-Cover 275		
K	vadrat A/S				Fabric)	
L	undbergsvej 10			T	el: 011 45 89 53 18 66	Ext:
84	400 Ebeltoft Denmark			F	ax: 011 45 89 53 18 00	

PASS/FAIL/REPEAT CRITERIA: A material is considered to pass or fail based on the following criteria:

- 1. A single mock-up test specimen fails to meet the requirements of this test procedure if any of the following criteria occurs:
 - a) The mock-up test specimen continues to smolder after the 45 minute test duration;
 - b) A vertical char length (measured as specified in step 11.9 of ASTM E1353-08ae1) of more than 1.8 inches (45 mm) develops on the cover fabric.
 - c) The mock-up test specimen transitions to open flaming.
- 2. The cover fabric passes the test if three initial mock-up specimens pass the test, i.e., the cigarettes burn their entire length and the mock-ups are no longer smoldering.
- 3. If more than one initial specimen fails, the cover fabric fails the test.
- 4. If any one of the three initial specimens fails, repeat the test on additional three specimens.
- 5. If all three additional specimens pass the test, the cover fabric passes the test. If any one of the additional three specimens fails, the cover fabric fails the test.

DISCUSSION: The current version of California Technical Bulletin 117-2013 has no provision to recognize cigarettes that self-extinguish prior to burning their entire length. However, ASTM E 1353 does recognize this phenomenon.

The SGS report evaluates replacement cigarettes as follows:

If a cigarette self extinguishes (SE) before burning its entire length, a new cigarette is placed into the test. If the new (replacement) cigarette self-extinguishes or burns its entire length, the result for that specimen will then be evaluated as if the cigarette burned its entire length when assigning the "Passing/Failure" conclusion.

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Received:01/16/2020	Completed: 01/17/2	2020 Letter: W	JR P.O. #:		Test Report #:	3-36	659-0-
Client's Cover Identification	Material: Relate.10	00% Trevira CS.					
Tested For: Lone Ho Kvadrat				Key Test: CA Tabr	ΓΒ 117-2013 (Section)	on 1-Cover	275
Lundberg 8400 Eb	gsvej 10 eltoft Denmark				45 89 53 18 66 45 89 53 18 00	Ext:	
RESULTS:							
	Specimen #	Char Length (inches)	SE (yes/no)	SB45 (yes/no)	TOF (yes/no)		
Initial:	1 2 3	0.8 0.7 0.8	No No No	No No No	No No No		
Replacement: (If needed)	1 2 3						
Repeat Tests: (If needed)	1 2 3						
EXPLANATION:							
Initial:	These are the draw a test co	first 3 cigarettonclusion.	tes where the	results coul	d be sufficient	t to	
Replacement:		initial cigarett test is conducte				complete	
Repeat Test:	Depending on to draw a cond	the initial or reclusion.	eplacement re	sults, repeat	tests might be	e required	
SB45 = Smolder TOF = Transit MNR = Measure transit EC = Escalat	r beyond 45 mir tions to open f ement not recor tioned to open ting smoldering	laming ded as smolderin	ng exceeded 4	5 minutes or			
CONCLUSION:							
The above resuindicate:	ults reported f	for the initial a	and / or repl	acement cigar	ettes are suff:	icient to	
[x] Passing	g; [] Failure	e; [] Repeat tes	st on 3 addit	ional specime	ns		
The results as	fter conducting	g the repeat test	s indicate:				
[] Passino	g; [] Failure	(Page 3	3 of 4)				



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Received:01/16/2020 Completed:01/17/2020 Le	etter: W	JR	P.O.#:	Test Report #:	3-36659-0-
Client's Cover Material: Relate.100% Tredentification	vira CS.			•	
Fested For: Lone Henriksen Kvadrat A/S Lundbergsvej 10				st: CA TB 117-2013 (Secti Fabric) I: 011 45 89 53 18 66	on 1-Cover 275 Ext:
8400 Ebeltoft Denmark				x: 011 45 89 53 18 00	Ext:
REMARKS: None.					
ERTIFICATION: I certify that the abit the interest in the procedures and equipment spe			re obtained aft	er testing specimens	in accordance
UTHORIZED SIGNATURE	Phyllis	Pett	π		
jab /pm	JAN 2	2 4	2020		
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