TECHNICAL SPECIFICATIONS

Quality

: CT-390

Yarn Fiber

: 100% Polypropylene (PP) Solution Dyed

Gauge and Structure : 1/12" Multi-Level Loop Machine Tufted

Size

: 50cm x 50cm

Packing

: 20pcs./box (5m²)

Pile Weight

 ± 16 oz./yd² (540g/m²)

Total Weight

 $\pm 4,000$ g./m²

Pile Height

: ± 3.5 / 4.0 / 4.5mm

Total Height

: ± 7.5mm

Primary Backing

: 100% Spun Bonded Polyester (Non-Woven)

Secondary Backing

: Cushion Back

Critical Radiant Flux

: ASTM E648-2019 / NFPA 101-2018

Smoke Density

: ASTM E662-2018

Fire Classification

: EN 13501-1: 2007+A1:2009 B_{fl}

Flammability Test

: SGS BS-4790:1987 / BS-5287:1988

Colorfastness

: AATCC TM 165-2013

Tuft Bind of Pile

: ASTM D 1335-17E1

Environmental Cert. : C R I Green Label Plus GLP100054

Quality Management : ISO-9001:2000 / ISO-14001:2004



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Date: OCT.16, 2020

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I. Test conducted

This test was conducted in accordance with ASTM E 648-2019 Standard test method for critical radiant flux of floor-covering systems using a radiant heat energy source.

II. Sample details

Sample description	Carpet Tile	
Color	Multi	
Exposed surface	The front surface	
Specimen size	Length: 1050mm; Width: 250mm; Thickness: 5.5mm	3 PCS

Precondition	Temperature: 21±3℃,	Humidity: 50±5%,	Duration: 9 days
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III. Test results

Distance (mm)	S1	S2	S3
Distance (IIIIII)	Time (minute: second)	Time (minute: second)	Time (minute: second)
50	5:48	6:01	5:51
100	9:23	10:12	10:26
150	-	-	/ =
200	-	-	
250	-	<u>=</u>	
300			<u> </u>
350	-	-	-
400	-	r u	- 1
450	-	0. #	-
500	9	9.5	
550			- Turk
600	<u>≅</u>		-1.
650	-		
700	a) <u> </u>	-
750	-	-	-
800	· 	-	-
850	<u>.</u>	•	-
900	-	1.50	_
950	7=		_
1000	7-	¥	_
1050	-		_
Extinguishing time	13:16	14:19	12:43
Burned distance (mm)	120	130	120

To be continued...



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soutis shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Test Report No. AJFS2009008018FF Date: OCT.16, 2020 Page 3 of 4 S1 S2 S3 Average S V

	S1	S2	S3	Average	S	V
Critical radiant flux (W/cm²)	1.1	1.1	1.1	1.1	0	0

Remark:

S-standard deviation; V-coefficient of variation

<u>Classification</u>: NFPA 101-2018 Life Safety Code Chapter 10 Interior Finish, Contents, and Furnishings Clause 10.2.7.4 Interior Floor Finish Test and Classification,

- (1) Class I interior floor finish shall be characterized by a critical radiant flux not less than 0.45 W/cm².
- (2) Class II interior floor finish shall be characterized by a critical radiant flux not less than 0.22 W/cm² but less than 0.45 W/cm².

Since the tested sample received an average Critical radiant flux 1.1 W/cm², it meets the requirements of Class I for interior floor finish specified in NFPA 101-2018 clause 10.2.7.4.

STATEMENTS:

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

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. The test results relate only to the specimens of the product in the form in which were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product, which is supplied or used, is fully represented by the specimens, which were tested.

To be continued....



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I. Test conducted

This test was conducted according to ASTM E662-2018 Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials.

II. Sample details

Sample description	Carpet Tile	
Color	One side multi; One side grey	
Thickness	About 6.0mm	
Dimensions	About 76mm×76mm	
Number of test sample	6 PCS	
Exposed surface	The front face	

III. Test details

Condition prior to testing:

Prior to testing, the submitted sample was dried for 48 h at 60±3°C and then

23±3℃ and RH 50±5% till constant weight

Irradiance Exposure:

2.50+/-0.05 W/cm²

IV. Test results

1) Flaming mode

	Test Specimen #1 #2 #3		Flaming dripping or		
			#3	flaming running	Average
Temperature of chamber wall (℃)	36	35	36		
$D_{\!\scriptscriptstyle{ m S1.5}}$	0.5	0	0.3		0.3
$D_{\!\scriptscriptstyle{\mathrm{S}^{4.0}}}$	142.9	85.6	91.7	No.	106.7
D_m	176.3	106.9	117.2	NO -	133.5
$t_{D_{\!\scriptscriptstyle m}}({ m min})$	11.0	11.0	12.1		No.
Dm(corr)	163.7	103.4	104.9		124.0
Observations	Color of the smoke: Black				

To be continued...



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2) Non - Flaming mode

	Test Specimen		Flaming dripping or		
	#1	#2	#3	flaming running	Average
Temperature of chamber wall (℃)	36	36	36		
$D_{\!\scriptscriptstyle{ m S1.5}}$	0	0	0		0
$D_{\!\scriptscriptstyle{ m S}4.0}$	28.9	30.6	31.2	No	30.2
D_m	441.8	467.5	456.9	NO -	455.4
$t_{D_{\!\scriptscriptstyle{m}}}$ (min)	17.5	16.7	16.2		
Dm(corr)	441.8	467.5	456.9		455.4
Observations	Color of the smoke: Black				

Note:

D_{s1.5} — Specific optical density at 1.5 minutes:

D_{s4.0} — Specific optical density at 4.0 minutes;

D_m — Maximum Specific optical density at any time during the 20 minutes;

t Dm— The time in minutes for the smoke to accumulate to the maximum specific optical density;

D_m(corr) —Dm corrected for incidental deposits on the optical surface

STATEMENTS:

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. The test results relate only to the specimens of the product in the form in which were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product, which is supplied or used, is fully represented by the specimens, which were tested.

To be continued...





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Test Results:

EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests

1. EN ISO 11925-2:2010

Test Results

Test Method	<u>Parameter</u>	Specimens number	Results
EN ISO 11925-2:2010	F ₈ ≤ 150mm		Yes
Surface exposure 15s flame application	Ignition filter paper	6	No
EN ISO 11925-2:2010	F _S ≤ 150mm		Yes
Edge exposure 15s flame application	Ignition filter paper	6	No

2. EN ISO 9239-1:2010 Determination of the burning behaviour using a radiant heat source

Test Results

Test Method	<u>Parameter</u>	Specimens number	Results
EN ISO 9239-1:2010	Critical flux (kW/m²)	4	8.2

Classification

This classification has been carried out in accordance with EN 13501-1:2007+A1:2009.

Conclusion

According to the test results, the submitted sample (complied) the requirements of EN 13501-1: 2007+A1:2009, class Bn

Remark: The classes with their corresponding fire performance are given in Table 2.

Note: When a statement of conformity to a specification or standard is provided, the ILAC-G8 Guidance document (and/or IEC Guide 115 in the electrotechnical sector) will be adopted as a decision rule for the determination of conformity unless it is inherent in the requested specification or standard, or otherwise specified in the Report.

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Table 2 — Classes of reaction to fire performance for floorings

Class	Test method(s)	Classification criteria	Additional classification
Aln	EN ISO 1182 ^a	Temperature rise $\Delta T \leq 30$ °C; and	Additional classification
ZXXII	and	Mass loss $\Delta m \le 50$ %; and	
	l and	Duration of sustained flaming $t_f = 0$	-
	EN ISO 1716	Gross calorific potential PCS ≤ 2.0 MJ/kg ^a	
	DIV 100 1710	and	
		Gross calorific potential PCS ≤ 2.0 MJ/kg	
		b and	
		Gross calorific potential PCS ≤ 1.4 MJ/m ²	-
		°and	
		Gross calorific potential PCS ≤ 2.0 MJ/kg	
		d	
A2 n	EN ISO 1182 a	Temperature rise $\Delta T \leq 50$ °C; and	
	M 10	Mass loss $\Delta m \leq 50 \%$; and	
	or	Duration of sustained flaming t _f ≤ 20 s	
	EN ISO 1716	Gross calorific potential PCS ≤ 3.0 MJ/kg ^a	
		and	
	and	Gross calorific potential PCS ≤ 4.0 MJ/m ²	
		^b and	
		Gross calorific potential PCS ≤ 4.0 MJ/m ²	-
		° and	
		Gross calorific potential PCS ≤ 3.0 MJ/kg	
	FD1.0000 11	0	
	EN 9239-1°	Critical flux ^f ≥ 8.0 kW/m ²	Smoke production g
\mathbf{B}_{n}	EN 9239-1°	Critical flux ^f ≥ 8.0 kW/m ²	Smoke production g
	and		
	EN ISO 11925-2	Flame spread $F_s \le 150 \text{ mm}$ within 20 s	
-	Exposure = 15s	0.11.10.1.10.12	
Cn	EN 9239-1°	Critical flux ^f ≥ 4.5 kW/m ²	Smoke production 8
	and	Plant I F a 160 VIII 00	
	EN ISO 11925-2	Flame spread $F_s \le 150$ mm within 20 s	•
D	Exposure = 15s EN 9239-1°	California Control Control	0 1 1 3
$\mathbf{D}_{\mathbf{n}}$	and	Critical flux ^f ≥ 3.0 kW/m ²	Smoke production g
	EN ISO 11925-2	Flores arread Fo < 150 mm within 20.	
	Exposure = 15s	Flame spread Fs ≤ 150 mm within 20s	
En	EN ISO 11925-2	Flame spread Fs ≤ 150 mm within 20s	
II II	Exposure = 15s	Tiante spread 1.5 \$ 1.50 Hull Within 208	•
R.	-	termined	
Fo	No performance de	etermined	

Note: When a statement of conformity to a specification or standard is provided, the ILAC-G8 Guidance document (and/or IEC Guide 115 in the electrotechnical sector) will be adopted as a decision rule for the determination of conformity unless it is inherent in the requested specification or standard, or otherwise specified in the Report.

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SL52035298443001TX

Date:September 22,2020

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Test Result

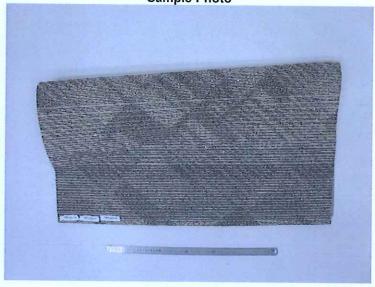
Color Fastness To Crocking

(AATCC TM 165-2013;)

>₩.	Unit	Α
Dry Staining	-	4.5
Wet Staining	-	4.5

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is worst and 5 is best

Sample Photo



End of Report



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SL52035298442801TX

Date:September 22,2020

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Test Result

Tuft Bind of Pile Yarn Floor Coverings

(ASTM D1335-17E1;)

Tuft Bind(lbf)

No. 1 8.8

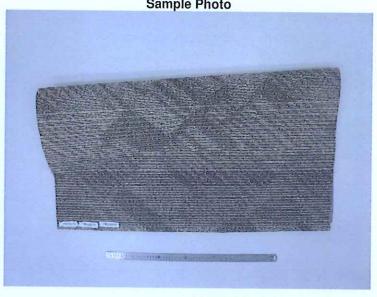
No. 2 8.6

No. 3 8.8

No. 4 9.6

No. 5 7.9

Sample Photo



End of Report



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HAS MET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM FOR CATEGORY:

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Range of Total VOCs 0.5 mg/m³ or less

Product Type: Modular Tile

Joe W. Yarbrough, President The Carpet and Rug Institue, Inc.

Certification Date: 02/28/2018 Expiration Date: 12/31/2021

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GLP100054

This product complies with California DPH Section 01350
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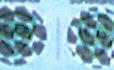
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Date of Issue: July 31, 2008

Date of Expiry: September 13, 2049 -

Certification Body: Chura Environmental Chase (18 jing)

Certification Certer Co., 1 to

Body Address: No.1, Yuhui South Road, Charryang District, Benjing, China

Issued by:

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The Second

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Security Features of Arrived Surveillance

