# TECHNICAL SPECIFICATIONS

| | |
|---|---|
| Quality | : CT-380 |
| Yarn Fiber | : 100% Polypropylene ( PP ) Solution Dyed |
| Gauge and Structure | : 1/12" Multi-Level Loop Machine Tufted |
| Size | : 25cm x 100cm |
| Packing | : 20pcs./box ($5m^2$) |
| Pile Weight | : ± 18oz./$yd^2$ (610g/$m^2$) |
| Total Weight | : ± 4,000g./$m^2$ |
| 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 |

## 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 |

## III. Test results

| Distance (mm) | S1 | S2 | S3 |
|---|---|---|---|
| | 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 | - | - | - |
| 300 | - | - | - |
| 350 | - | - | - |
| 400 | - | - | - |
| 450 | - | - | - |
| 500 | - | - | - |
| 550 | - | - | - |
| 600 | - | - | - |
| 650 | - | - | - |
| 700 | - | - | - |
| 750 | - | - | - |
| 800 | - | - | - |
| 850 | - | - | - |
| 900 | - | - | - |
| 950 | - | - | - |
| 1000 | - | - | - |
| 1050 | - | - | - |
| Extinguishing time | 13:16 | 14:19 | 12:43 |
| Burned distance (mm) | 120 | 130 | 120 |

To be continued...



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| | 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

**Classification:** 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℃ 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 | | | Flaming dripping or flaming running | Average |
|---|---|---|---|---|---|
| | #1 | #2 | #3 | | |
| Temperature of chamber wall (℃) | 36 | 35 | 36 | NO | |
| $D_{S1.5}$ | 0.5 | 0 | 0.3 | | 0.3 |
| $D_{S4.0}$ | 142.9 | 85.6 | 91.7 | | 106.7 |
| $D_m$ | 176.3 | 106.9 | 117.2 | | 133.5 |
| $t_{D_m}$(min) | 11.0 | 11.0 | 12.1 | | |
| *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 flaming running | Average |
|---|---|---|---|---|---|
| | #1 | #2 | #3 | | |
| Temperature of chamber wall (℃) | 36 | 36 | 36 | NO | |
| $D_{S1.5}$ | 0 | 0 | 0 | | 0 |
| $D_{S4.0}$ | 28.9 | 30.6 | 31.2 | | 30.2 |
| $D_m$ | 441.8 | 467.5 | 456.9 | | 455.4 |
| $t_{D_m}$ (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 | Parameter | Specimens number | Results |
|---|---|---|---|
| EN ISO 11925-2:2010 Surface exposure 15s flame application | $F_s \leq 150mm$ | 6 | Yes |
| | Ignition filter paper | | No |
| EN ISO 11925-2:2010 Edge exposure 15s flame application | $F_s \leq 150mm$ | 6 | Yes |
| | Ignition filter paper | | No |

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

Test Results

| Test Method | Parameter | Specimens number | Results |
|---|---|---|---|
| EN ISO 9239-1:2010 | Critical flux ($kW/m^2$) | 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 $B_n$

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

**Table 2 — Classes of reaction to fire performance for floorings**

| Class | Test method(s) | Classification criteria | Additional classification |
|---|---|---|---|
| $A1_n$ | EN ISO 1182[a] and | Temperature rise $\Delta T \leq 30$ °C; and Mass loss $\Delta m \leq 50$ %; and Duration of sustained flaming $t_f = 0$ | - |
| | EN ISO 1716 | Gross calorific potential PCS ≤ 2.0 MJ/kg [a] and Gross calorific potential PCS ≤ 2.0 MJ/kg [b] and Gross calorific potential PCS ≤ 1.4 MJ/m² [c] and Gross calorific potential PCS ≤ 2.0 MJ/kg [d] | - |
| $A2_n$ | EN ISO 1182 [a] or | Temperature rise $\Delta T \leq 50$ °C; and Mass loss $\Delta m \leq 50$ %; and Duration of sustained flaming $t_f \leq 20$ s | - |
| | EN ISO 1716 and | Gross calorific potential PCS ≤ 3.0 MJ/kg [a] and Gross calorific potential PCS ≤ 4.0 MJ/m² [b] and Gross calorific potential PCS ≤ 4.0 MJ/m² [c] and Gross calorific potential PCS ≤ 3.0 MJ/kg [d] | - |
| | EN 9239-1[e] | Critical flux [f] ≥ 8.0 kW/m² | Smoke production [g] |
| $B_n$ | EN 9239-1[e] and | Critical flux [f] ≥ 8.0 kW/m² | Smoke production [g] |
| | EN ISO 11925-2 Exposure = 15s | Flame spread $F_s \leq 150$ mm within 20 s | - |
| $C_n$ | EN 9239-1[e] and | Critical flux [f] ≥ 4.5 kW/m² | Smoke production [g] |
| | EN ISO 11925-2 Exposure = 15s | Flame spread $F_s \leq 150$mm within 20 s | - |
| $D_n$ | EN 9239-1[e] and | Critical flux [f] ≥ 3.0 kW/m² | Smoke production [g] |
| | EN ISO 11925-2 Exposure = 15s | Flame spread Fs ≤ 150 mm within 20s | - |
| $E_n$ | EN ISO 11925-2 Exposure = 15s | Flame spread Fs ≤ 150 mm within 20s | - |
| $F_n$ | No performance determined | | |

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.

Test Result

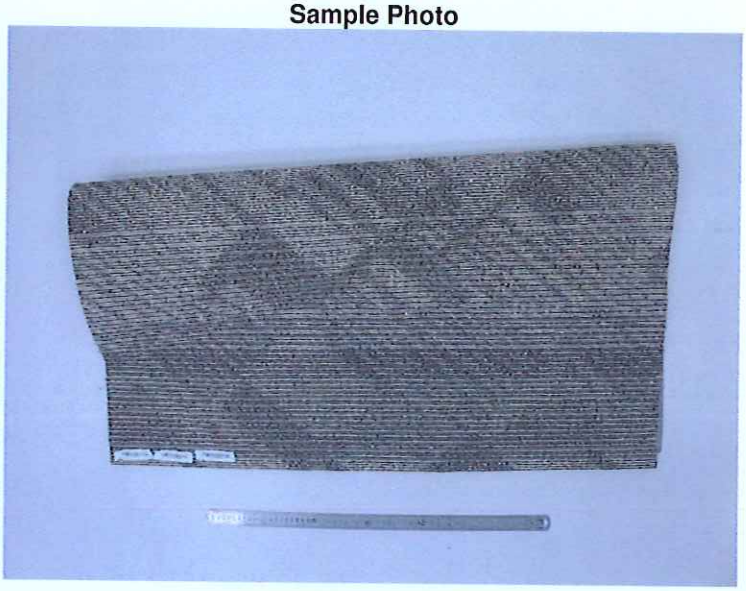
**Color Fastness To Crocking**

(AATCC TM 165-2013; )

| - | Unit | A |
|---|---|---|
| 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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Test Result

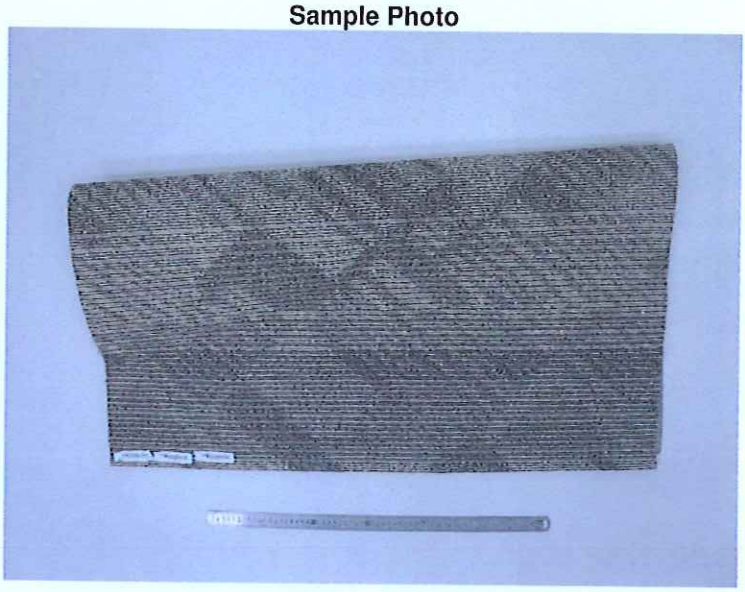
**Tuft Bind of Pile Yarn Floor Coverings**

(ASTM D1335-17E1;)

**A**

| | No. 1 | No. 2 | No. 3 | No. 4 | No. 5 |
|---|---|---|---|---|---|
| Tuft Bind(lbf) | 8.8 | 8.6 | 8.8 | 9.6 | 7.9 |

**Sample Photo**



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# GREEN LABEL PLUS

INDOOR AIR QUALITY TESTING PROGRAM
THIS CERTIFIES THAT

Address: No.12-1,Jintong road,Tongan Town, High-Tech development Zone, Suzhou City, Jiangsu China

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

**15X Pre-dyed Nylon with Bitumen Backing**

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

To view all GLP-Certified products visit www.carpet-rug.org/glpproducts.



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CRI GREEN LABEL +PLUS Indoor Air Quality Testing Program carpet-rug.org

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**This product complies with California DPH Section 01350 Version 1.2 Private Office Scenario.**

**A USGBC® recognized third party certification program for LEED v4 EQ Credit Low-Emitting Materials.**

ANSI ACCREDITED

**ISO/IEC 17065 Product Certification Body #0754**

# QUALITY MANAGEMENT SYSTEM CERTIFICATE

**Certificate No.: 05507Q10436R1M-1**

We hereby certify that

## TILE CARPET CO., LTD.

REGISTRATION ADDRESS: NO.4997, BAOAN ROAD, ANTING TOWN, JIADING DISTRICT, SHANGHAI, P.R. CHINA
PRODUCTION ADDRESS: NO.12, JINTONG ROAD, TONG'AN TOWN, SUZHOU HIGH-NEW INDUSTRIAL PARK, JIANGSU PROVINCE, P.R.CHINA

POST CODE: 201805

by reason of its

**QUALITY MANAGEMENT SYSTEM**

has been awarded this certificate for compliance with the standards

**GB/T19001-2000 idt ISO9001: 2000**

(The 7.3 is excluded)

This system is valid for the following area:

PRODUCTION OF "JUDONG" TILE CARPET (PVC TILE CARPET & MODIFIED BITUMEN TILE CARPET & CUSHION BACK TILE CARPET)

**Date of Issue:** August 28, 2008

**Date of Expiry:** December 29, 2008

**Certification Body:** China Environmental United (Beijing) Certification Center Co., Ltd.

**Body Address:** No.1, Yuhui South Road, Chaoyang District, Beijing, China

**Issued by:**

The expiry of this certification will be to one year later since the valid date issued and be re-valid just with the security feature of annual surveillance together.

Security Features of Annual Surveillance

The First Surveillance

The Second Surveillance

The Third Surveillance

CNAS

Management System
CNAS C056-O

IAF

# ISO14001 CERTIFICATE

**Certificate No.: 05506E10205R1M**

We hereby certify that

## TILE CARPET CO., LTD.

REGISTERED ADDRESS: NO.4997, BAOAN ROAD, JIADING DISTRICT, SHANGHAI, P.R. CHINA
PRODUCTION ADDRESS: NO.12, JINTONG ROAD, TONGAN TOWN, NEW INDUSTRIAL PARK, SUZHOU, P.R. CHINA

POST CODE: 201805

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has been awarded this certificate for
compliance with the standards

**GB/T24001:2004 idt ISO14001: 2004**

The Environmental Management System applies to the following area:
**THE RELEVANT SITES OF SHANGHAI JUDONG TILE CARPET CO., LTD., LOCATED AT NO.4997, BAOAN ROAD, JIADING DISTRICT, SHANGHAI/ NO.12, JINTONG ROAD, TONGAN TOWN, NEW INDUSTRIAL PARK, SUZHOU, P.R. CHINA, AND THE WHOLE PROCESS OF PRODUCTION OF PVC TILE CARPET AND MODIFIED MATERIAL TILE CARPET**

**Date of Issue:** July 31, 2008
**Date of Expiry:** September 13, 2009
**Certification Body:** China Environmental United (Beijing) Certification Center Co., Ltd.
**Body Address:** No.1, Yuhui South Road, Chaoyang District, Beijing, China
**Issued by:**

The expiry of this certification will be to one year later since the valid date issued and be re-valid just with the security feature of annual surveillance together.

| | The First Surveillance | The Second Surveillance | The Third Surveillance |
|---|---|---|---|
| Security Features of Annual Surveillance | | | |

Management System
CNAS C055-E