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Laboratory Standards and  
Certifications

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استاندارد آتش پذیری و شعله وری  
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中国认可  
国际互认  
检测  
TESTING  
CNAS L1314

# 检验报告

## TEST REPORT

No: WT-2022-023

产品名称: Carpet Tile

Product name

受检单位:

Inspected Body

生产单位:

Manufacturer

委托单位:

Client Name

检测类别:

Test category

发布日期:

Release date

Carpet Tile

WITLON CARPETS Co., LTD.

WITLON CARPETS Co., LTD.

Entrusted Test

2022年01月28日

(国家地毯质量检验检测中心)

(National Carpet Quality Inspection and Testing Center)

产品质量监督检测技术研究院地毯研究中心

Tai Wan Product Quality Inspection Technology Research Institute Carpet Research Center

检验检测专用章

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|                            |                                                                                                                                                                                                                                                                                                                |                           |                                                                        |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------|
| 产品名称<br>Product name       | Carpet Tile                                                                                                                                                                                                                                                                                                    | 规格型号<br>Specification     | cm: 50 × 50                                                            |
|                            |                                                                                                                                                                                                                                                                                                                | 商标<br>Trade mark          | WITLON                                                                 |
| 委托单位<br>Client name        | WITLON CARPETS Co., Ltd.                                                                                                                                                                                                                                                                                       | 样品数量<br>Numbers of sample | 8 pieces                                                               |
| 生产单位<br>Manufacturer       | WITLON CARPETS Co., Ltd.                                                                                                                                                                                                                                                                                       | 电话<br>Client's Tel        | 0510-88351777<br>0510-88764888                                         |
| 受检单位<br>Inspected Body     | ——                                                                                                                                                                                                                                                                                                             | 邮编<br>Postcode            | 214199                                                                 |
| 委托单位地址<br>Client's address | Taiwan Industrial park,<br>Gaoxiong Development<br>Zone, Tai Wan                                                                                                                                                                                                                                               | 抽样地点<br>Sampling location | ——                                                                     |
|                            |                                                                                                                                                                                                                                                                                                                | 抽样基数<br>Sampling radix    | ——                                                                     |
| 样品描述<br>Sample description | <br>sample is perfect/loop pile                                                                                                                                                                                             | 检测类别<br>Test category     | Entrusted Test                                                         |
|                            |                                                                                                                                                                                                                                                                                                                | 生产日期<br>Production date   | ——                                                                     |
|                            |                                                                                                                                                                                                                                                                                                                | 送样人<br>Deliverer          | Mail by the client                                                     |
| 送样日期<br>Date of submission | 2022.01.25                                                                                                                                                                                                                                                                                                     | 检测日期<br>Date of test      | 2022.01.27                                                             |
| 检测依据<br>Test standards     | GB 8624—2012<br>《Classification for burning behavior<br>of building materials and products》<br>GB/T 11785—2005<br>《Reaction to fire tests for floorings—<br>Determination of the burning behaviour<br>using aradiant heat source》<br>GB/T 8626—2007<br>《Test method of flammability for<br>building materials》 | 检测项目<br>Test items        | 1. Reaction to fire—<br>critical heat flux<br>2. The length of burning |
| 检测结论<br>Test conclusion    | The test results show that the sample(s) meet(s) the specification of<br>B <sub>1</sub> (C) class by testing.<br><br>Date of the Issue: 2022-01-28                                                                                                                                                             |                           |                                                                        |
| 备注<br>Remarks              | The tested data are only suitable to the sample(s) received.                                                                                                                                                                                                                                                   |                           |                                                                        |

批准:

Approved by

胡红飞

审核:

Checked by

谢树

编制:

Prepared by

吴金

# استاندارد آتش پذیری و شعله وری

## استاندارد آتش پذیری و شعله وری

### 产品质量监督检测技术研究院地毯研究中心

Tai Wan Product Quality Inspection Technology Research Institute Carpet Research Center

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| 检测项目<br>Test Item                                                                   | 单位<br>Unit        | 标准指标<br>Criteria |   |                                                                                      | 实 测 数 值<br>Practical Determined Data | 结果评定<br>Assessment |
|-------------------------------------------------------------------------------------|-------------------|------------------|---|--------------------------------------------------------------------------------------|--------------------------------------|--------------------|
| The length of burning                                                               | mm                | B <sub>1</sub>   | C | F <sub>s</sub> ≤150                                                                  | 63                                   | Passed             |
| Reaction to fire--<br>critical heat flux                                            | kW/m <sup>2</sup> |                  |   | CHF≥4.5                                                                              | 6.6                                  | Passed             |
| Before test                                                                         |                   |                  |   | After test                                                                           |                                      |                    |
|  |                   |                  |   |  |                                      |                    |
| 备 注:<br>Remarks                                                                     |                   |                  |   |                                                                                      |                                      |                    |
| 以下空白                                                                                |                   |                  |   |                                                                                      |                                      |                    |

CCSQIC/QP/009

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SGS

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STANDARD CARPETS IND. L.L.C

SAIH SHUAIB 2, DUBAI INDUSTRIAL CITY ,P.O BOX : 490014, DUBAI (UAE)

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description : 100 % SOLUTION DYED POLYPROPYLENE CARPET TILE  
Sample Receiving Date : Jul.23, 2019  
Test Performing Date : Jul.23, 2019 to Aug.13, 2019  
Test Result(s) : For further details, please refer to the following page(s).

Signed for and on behalf of  
Shunde Branch  
SGS-CSTC Co., Ltd.

*Ivette Zhang*

Ivette Zhang  
Approved signatory



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| No. | Test(s) Requested                                                                                                                                                                                                                          | Result(s)             | Comments |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------|
| 1   | 16 CFR 1631 —Standard for the surface flammability of small carpets and rugs (FF 2-70)                                                                                                                                                     | PASS                  | /        |
|     | ISO 6925:1982 Textile floor Coverings –Burning behavior-<br>Tablet test at ambient temperature                                                                                                                                             | Refer to next page(s) | /        |
| 2   | To determine the Cadmium(Cd) content(s) in the submitted sample(s).                                                                                                                                                                        | See Results           | /        |
|     | To determine the Carcinogenic Disperse Dyes content(s) in the submitted sample(s).                                                                                                                                                         | See Results           | /        |
|     | Determination of Azodyes in the submitted sample(s) with reference to the Entry 43 of Commission Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2002/61/EC). | See Results           | /        |
|     | Major Composition Qualitative Analysis<br>ASTM E1252-98(2013) <sup>†1</sup>                                                                                                                                                                | Polypropylene(PP)     | /        |
| 4   | Colour Fastness To Rubbing<br>(ISO 105-X12:2016,Size of rubbing finger: 19 x 25.4mm)                                                                                                                                                       | Refer to next page(s) | /        |
|     | Colour Fastness To Water<br>(ISO 105-E01:2013;test specimen in vertical position)                                                                                                                                                          | Refer to next page(s) | /        |
|     | Formaldehyde<br>(ISO 14184-1:2011.)                                                                                                                                                                                                        | Refer to next page(s) | /        |
|     | Formaldehyde<br>(ISO 14184-2:2011; Analysis was preformed by UV-Vis.)                                                                                                                                                                      | Refer to next page(s) | /        |
| 5   | Tensile Force<br>ISO 11857-1999                                                                                                                                                                                                            | 49.0N                 | /        |

For further details, please refer to the following page(s)



|                                                                                                                                         |          |                     |                     |                     |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------|---------------------|---------------------|
| 97 "Building Corporate Networks: China's Steel Sector" <i>Asian Survey Journal</i> (Fall 2006) <i>Asian Survey</i> (Spring/Summer 2007) | 02/03/07 | 1 (86-757) 22905888 | 1 (86-757) 22905888 | www.eagroup.com.cn  |
| 中国、广东、佛山制造业企业上市融资与重组案例研究及上市公司一览表 (广东版) 2006                                                                                             | 03/03/07 | 1 (86-757) 22905888 | 1 (86-757) 22905888 | 1 (86) 757 22905888 |

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Part 1

Test 1

### Test Conducted:

This test is conducted accordance with 16 CFR 1631 Standard for the surface flammability of small carpets and rugs (FF 2-70)

### Sample details:

|                      |                                                              |
|----------------------|--------------------------------------------------------------|
| Sample Name          | Carpet                                                       |
| Laundering condition | Yes                                                          |
| Conditioning         | T: 105°C Duration: 2hours, then cool for 1hour in desiccator |

### Criteria:

|                      |                                                                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test criterion       | A specimen passes the test if the charred portion does not extend to within 2.54 cm. (1.0 in.) of the edge of the hole in the flattening frame at any point |
| Acceptance criterion | At least seven of the eight specimens shall meet the test criterion in order to conform with this Standard.                                                 |

### Test results:

| Specimen No. | Whether the charred portion extend to within 2.54 cm. (1.0 in.) of the edge of the hole in the flattening frame at any point | Rating |
|--------------|------------------------------------------------------------------------------------------------------------------------------|--------|
| 1            | No                                                                                                                           | Pass   |
| 2            | No                                                                                                                           | Pass   |
| 3            | No                                                                                                                           | Pass   |
| 4            | No                                                                                                                           | Pass   |
| 5            | No                                                                                                                           | Pass   |
| 6            | No                                                                                                                           | Pass   |
| 7            | No                                                                                                                           | Pass   |
| 8            | No                                                                                                                           | Pass   |

### Conclusion

As per test method of the 16CFR 1631 contained, the submitted specimens comply with that acceptance criterion.



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| Specimen No. | The maximum diameter of damage area (mm) | Whether the flame or glowing reaches the edge of the hole in the metal plate. |
|--------------|------------------------------------------|-------------------------------------------------------------------------------|
| 1            | 18                                       | No                                                                            |
| 2            | 17                                       | No                                                                            |
| 3            | 18                                       | No                                                                            |
| 4            | 18                                       | No                                                                            |
| 5            | 17                                       | No                                                                            |
| 6            | 17                                       | No                                                                            |
| 7            | 16                                       | No                                                                            |
| 8            | 16                                       | No                                                                            |



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Remark: The maximum distance between the centre of the specimen and the edge of the damaged zone using the rule.

Photo Appendix:



Part 2: SGS Ref. No.: CAN19-149956

Test Results :

Test Part Description :

| SGS Sample ID    | Description                                     |
|------------------|-------------------------------------------------|
| CAN19-149956.001 | Dark blue/black fleece sheet with black backing |

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

### Cadmium (Cd)

Test Method : SGS In-house method (GZTC CHEM-TOP-004-01, with reference to US EPA Method 3052:1996), analysis was performed by ICP-OES.



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# استاندارد شعله وری

## استاندارد شعله وری اس جی اس

# SGS

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| Test Item(s) | CAS NO.   | Unit   | MDL    | 001 |
|--------------|-----------|--------|--------|-----|
| Cadmium (Cd) | 7440-43-9 | %(w/w) | 0.0005 | ND  |

### Carcinogenic Disperse Dyes

Test Method : With reference to DIN 54231:2005, analysis was performed by HPLC-DAD-MSD.

| Test Item(s)                                           | CAS NO.   | Unit  | MDL | 001 |
|--------------------------------------------------------|-----------|-------|-----|-----|
| Carcinogenic Disperse Dyes                             |           |       |     |     |
| C.I. Acid Red 26<br>(Structure No: C.I. 16 150)        | 3761-53-3 | mg/kg | 15  | ND  |
| C.I. Basic Red 9<br>(Structure No: C.I. 42 500)        | 569-61-9  | mg/kg | 15  | ND  |
| C.I. Direct Black 38<br>(Structure No: C.I. 30 235)    | 1937-37-7 | mg/kg | 15  | ND  |
| C.I. Direct Blue 6<br>(Structure No: C.I. 22 610)      | 2602-46-2 | mg/kg | 15  | ND  |
| C.I. Direct Red 28<br>(Structure No: C.I. 22 120)      | 573-58-0  | mg/kg | 15  | ND  |
| C.I. Basic Violet 14<br>(Structure No: C.I. 42 510)    | 632-99-5  | mg/kg | 15  | ND  |
| C.I. Disperse orange 11<br>(Structure No: C.I. 60 700) | 82-28-0   | mg/kg | 15  | ND  |
| C.I. Disperse Blue 1<br>(Structure No: C.I. 64 500)    | 2475-45-8 | mg/kg | 15  | ND  |
| C.I. Disperse Yellow 3<br>(Structure No: C.I. 11 855)  | 2832-40-8 | mg/kg | 15  | ND  |

### Azo Dyes

A. Test Method : With reference to EN 14362-1 :2012 - Analysis was conducted with GC-MS/HPLC-DAD.

| Test Item(s)                 | CAS NO.  | Unit  | MDL | 001 |
|------------------------------|----------|-------|-----|-----|
| 4-Aminobiphenyl              | 92-67-1  | mg/kg | 5   | ND  |
| Benzidine                    | 92-87-5  | mg/kg | 5   | ND  |
| 4-chloro-o-toluidine         | 95-69-2  | mg/kg | 5   | ND  |
| 2-naphthylamine              | 91-59-8  | mg/kg | 5   | ND  |
| o-aminoazotoluene            | 97-56-3  | mg/kg | 5   | ND  |
| 5-nitro-o-toluidine /        | 99-55-8  | mg/kg | 5   | ND  |
| 2-Amino-4-nitrotoluene       |          |       |     |     |
| 4-chloroaniline              | 106-47-8 | mg/kg | 5   | ND  |
| 4-methoxy-m-phenylenediamine | 615-05-4 | mg/kg | 5   | ND  |



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|                                             |          |       |   |    |
|---------------------------------------------|----------|-------|---|----|
| / 2,4-Diaminoanisole                        |          |       |   |    |
| 4,4' -diaminodiphenylmethane                | 101-77-9 | mg/kg | 5 | ND |
| 3,3' -dichlorobenzidine                     | 91-94-1  | mg/kg | 5 | ND |
| 3,3' -dimethoxybenzidine                    | 119-90-4 | mg/kg | 5 | ND |
| 3,3' -dimethylbenzidine                     | 119-93-7 | mg/kg | 5 | ND |
| 3,3'-Dimethyl-4,4'-diaminodiphenylmethane / | 838-88-0 | mg/kg | 5 | ND |
| 4,4'-methylenedi-o-toluidine                |          |       |   |    |
| p-cresidine                                 | 120-71-8 | mg/kg | 5 | ND |
| 4,4' -methylene-bis-(2-chloroaniline)       | 101-14-4 | mg/kg | 5 | ND |
| 4,4' -oxydianiline                          | 101-80-4 | mg/kg | 5 | ND |
| 4,4' -thiodianiline                         | 139-65-1 | mg/kg | 5 | ND |
| o-toluidine                                 | 95-53-4  | mg/kg | 5 | ND |
| 4-methyl-m-phenylenediamine /               | 95-80-7  | mg/kg | 5 | ND |
| 2,4-Toluylenediamine                        |          |       |   |    |
| 2,4,5-trimethylaniline                      | 137-17-7 | mg/kg | 5 | ND |
| 4-aminoazobenzene                           | 60-09-3  | mg/kg | 5 | ND |
| O-Anisidine                                 | 90-04-0  | mg/kg | 5 | ND |

B. Test Method : With reference to ISO 17234-1:2015, analysis was conducted with GC-MS/HPLC-DAD.

| Test Item(s)                                      | CAS NO.  | Unit  | MDL | 001 |
|---------------------------------------------------|----------|-------|-----|-----|
| 4-Aminobiphenyl                                   | 92-67-1  | mg/kg | 5   | ND  |
| Benzidine                                         | 92-87-5  | mg/kg | 5   | ND  |
| 4-chloro-o-toluidine                              | 95-69-2  | mg/kg | 5   | ND  |
| 2-naphthylamine                                   | 91-59-8  | mg/kg | 5   | ND  |
| o-aminoazotoluene                                 | 97-56-3  | mg/kg | 5   | ND  |
| 5-nitro-o-toluidine /                             | 99-55-8  | mg/kg | 5   | ND  |
| 2-Amino-4-nitrotoluene                            |          |       |     |     |
| 4-chloroaniline                                   | 106-47-8 | mg/kg | 5   | ND  |
| 4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole | 615-05-4 | mg/kg | 5   | ND  |
| 4,4' -diaminodiphenylmethane                      | 101-77-9 | mg/kg | 5   | ND  |
| 3,3' -dichlorobenzidine                           | 91-94-1  | mg/kg | 5   | ND  |
| 3,3' -dimethoxybenzidine                          | 119-90-4 | mg/kg | 5   | ND  |
| 3,3' -dimethylbenzidine                           | 119-93-7 | mg/kg | 5   | ND  |
| 3,3'-Dimethyl-4,4'-diaminodiphenylmethane /       | 838-88-0 | mg/kg | 5   | ND  |
| 4,4'-methylenedi-o-toluidine                      |          |       |     |     |
| p-cresidine                                       | 120-71-8 | mg/kg | 5   | ND  |
| 4,4' -methylene-bis-                              | 101-14-4 | mg/kg | 5   | ND  |



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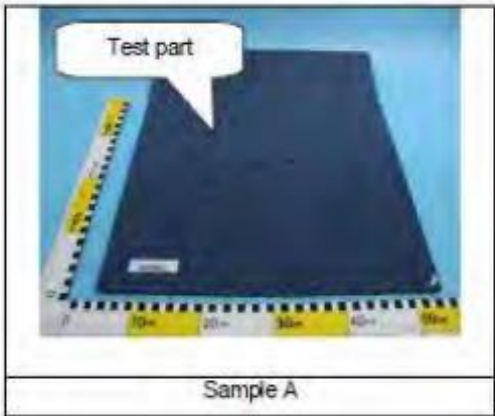
**kliet**

SGS

Test Report      No. SDFS1907004534FF      Date: Aug.13, 2019      Page 9 of 14

Part 3: SGS Ref. No.: GZIN1908041367MR

Original Sample Photo:



Test Item: Major Composition Qualitative Analysis  
Sample Description: See photo  
Test Method: ASTM E1252-98(2013)\*1, analysis was performed by FTIR.  
Sample Technique: Hot-pressed film  
Test Result:

| Sample | Major composition                              |
|--------|------------------------------------------------|
| A      | Polypropylene(PP)<br>(FTIR spectrum see Fig.1) |



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| Equipment | Model        | Equipment No. | Calibration date | Next Calibration date |
|-----------|--------------|---------------|------------------|-----------------------|
| FTIR      | NICOLET 5700 | GZMR-PL-E028  | 2018-09-07       | 2019-09-06            |

[illegible]

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## Test Report

No. SDFS1907004534FF

Date: Aug.13, 2019

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Part 4: SGS Ref. No.: SL91939276232101TX

### Test Results

#### Colour Fastness To Rubbing

(ISO 105-X12:2016; Size of rubbing finger: 19 x 25.4mm)

##### As Received

|              | Unit | (A) | Requirement |
|--------------|------|-----|-------------|
| Dry Staining | -    | 4   | -           |
| Wet Staining | -    | 4   | -           |

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

#### Colour Fastness To Water

(ISO 105-E01:2013; test specimen in vertical position)

|                                | Unit | (A) | Requirement |
|--------------------------------|------|-----|-------------|
| Change In Shade                | -    | 4-5 | -           |
| Staining On Multi-fibre Stripe | -    | -   | -           |
| Acetate                        | -    | 4-5 | -           |
| Cotton                         | -    | 4-5 | -           |
| Nylon                          | -    | 4-5 | -           |
| Polyester                      | -    | 4-5 | -           |
| Acrylic                        | -    | 4-5 | -           |
| Wool                           | -    | 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.

#### Formaldehyde

(ISO 14184-1:2011.)

|                               | Cas No  | Result<br>(mg/kg)<br>Sample (A) |
|-------------------------------|---------|---------------------------------|
| Formaldehyde<br>Requirement - | 50-00-0 | ND                              |

##### Note:

ND = Not Detected

1ppm = 1 mg/kg

\* = Exceed the limit

Detection limit = 16 mg/kg



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استاندارد شعله وری  
استاندارد شعله وری اس جی اس

SGS

Test Report

No. SDFS1907004534FF

Date: Aug.13, 2019

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Formaldehyde

ISO 14184-2:2011; Analysis was preformed by UV-Vis.)

|                                                                                                   | Cas No  | Result<br>(mg/kg)<br>Sample (A) |
|---------------------------------------------------------------------------------------------------|---------|---------------------------------|
| Formaldehyde<br>Requirement                                                                       | 50-00-0 | 20                              |
| Note:<br>ND = Not Detected<br>1ppm =1 mg/kg<br>* = Exceed the limit<br>Detection limit = 16 mg/kg |         |                                 |

Sample Photo



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Test Report

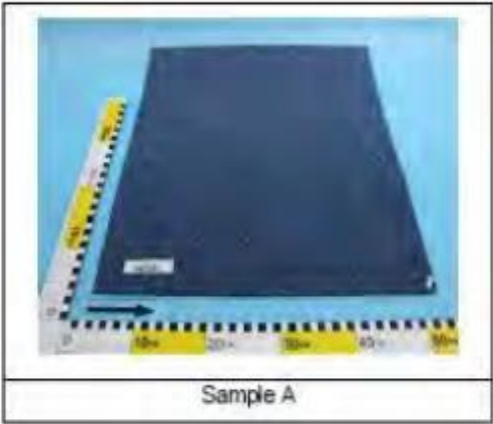
No. SDFS1907004534FF

Date: Aug.13, 2019

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Part 5: SGS Ref. No.: GZIN1908042039MR

Original Sample Photo:



Test Item: Tensile Force

Sample Description: See photo

Test Method: ISO 11857-1999

Test Condition:

Specimen width: 50mm

Testing speed: 300mm/min

Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

| Test Item     | Test Result |
|---------------|-------------|
| Tensile Force | 49.0N       |

Note: Test specimens were cut from the sample.



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A photograph of a stainless steel industrial machine, likely a food processor or slicer. It features a large hopper at the top for loading material, a central processing area with a red safety guard, and a control panel on the right side. The machine is mounted on a sturdy base.



After test

| Equipment                 | Model | Equipment No. | Calibration date | Next Calibration date |
|---------------------------|-------|---------------|------------------|-----------------------|
| Universal Testing Machine | Z1.0  | GZMR-PL-E168  | 2019-04-16       | 2020-04-15            |

\*\*\*End of Report\*\*\*

[illegible]

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Standard Carpets ind flc  
Mr. Upendra R. Oza  
Industrial Area no.1 PO Box 27977  
SHARJAH  
Verenigde Arabische Emiraten



Your notice of  
13-12-2012

Your reference

Date  
04-01-2013

### Analysis Report 12.05464.01

Required tests :

CFR 1630-PF 1-70

Standard for the surface flammability of carpets and rugs.

| Identification number | Information given by the client                      | Date of receipt |
|-----------------------|------------------------------------------------------|-----------------|
| T1217795              | Polypropylene Graphic Carpet Tile with Vinyl backing | 13-12-2012      |

Pros Van Hoeyland

Order responsible

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VAT BE 0459.215.289

Fin. Acc. 210-0472965-45

IBAN BE44 2100 4729 6545

CENTEXBEL-GENT  
Technologiepark 7  
BE-9052 Zwijnaarde

Tel + 32 9 220 41 51 • Fax + 32 9 220 49 55  
gent@centexbel.be

CENTEXBEL-VERVIERS

Avenue du Parc 38

BE-4650 Herve (Châteaux)

Tel + 32 87 32 24 30 Fax + 32 87 34 06 18  
chateaux@centexbel.be

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Page 1 of 2



Analysis Report 12.05464.01

Date 04-01-2013

Page 2/2

Reference: T1217795 - Polypropylene Graphic Carpet Tile with Vinyl backing

Standard for the surface flammability of carpets and rugs.

Date of ending the test 04-01-2013

Standard used CFR 1630-FF 1-70 & 1631-FF 2-70

Deviation from the standard -

Conditioning 2 hours in a drying oven at 105 °C. After drying cooled to room temperature in a desiccator.

The specimens have been taken from the material as supplied

No cleaning procedure has been applied prior to testing.

Specimens have been tested loose laid on a standard non-combustible substrate.

|    | Flame time or time to reach the edge | Max. damage from centre point of specimen (mm). | Charred area $\leq 25$ mm from inside edge (1). |
|----|--------------------------------------|-------------------------------------------------|-------------------------------------------------|
| #1 | 1 min 59 s                           | 12                                              | no                                              |
| #2 | 1 min 49 s                           | 11                                              | no                                              |
| #3 | 2 min 41 s                           | 11                                              | no                                              |
| #4 | 2 min 09 s                           | 10                                              | no                                              |
| #5 | 1 min 52 s                           | 12                                              | no                                              |
| #6 | 2 min 04 s                           | 12                                              | no                                              |
| #7 | 2 min 13 s                           | 10                                              | no                                              |
| #8 | 2 min 21 s                           | 15                                              | no                                              |

(1) "yes" if the max. damage from the centre point is  $\geq 76$  mm or when flames reach the inside edge.

Test criterion

A specimen fails the test if the charred area reaches a distance of 25 mm or less, from the inside edge of the template.

Acceptance criterion

At least seven of the eight specimens shall meet the test criterion in order to conform with the standard.

Conclusion

Pass

Performed under accreditation in the fire lab under the responsibility of Pros Van Hoeyland

# استاندارد واکنش به آتش

## استاندارد واکنش به آتش ای ان ۱۳۵۰۱



**Standard Carpets ind llc**  
**Mr. Sahil Passi**  
**P.O. Box No. 490014 Dubai Industrial Park**  
**DUBAI UAE**  
**Verenigde Arabische Emiraten**

**Your notice of**  
08-03-2019

**Your reference**

**Date**  
30-04-2019

### Analysis Report 19.01450.01

Required tests :

EN 13501-1 (2007) + A1 (2009)

| Identification number | Information given by the client       | Date of receipt |
|-----------------------|---------------------------------------|-----------------|
| T1905440              | 100 % Solution dyed Nylon carpet tile | 08-03-2019      |

**Kristina De Temmerman**  
Order responsible

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In assessing compliance with the specifications, we did not take into account the uncertainty on the test results.



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# استاندارد واکنش به آتش

## استاندارد واکنش به آتش ای ان ۱۳۵۰۱



Analysis Report 19.01450.01  
Date 30-04-2019  
Page 2/6

**Reference:** T1905440 - 100 % Solution dyed Nylon carpet tile

**Information given by the client**

|                               |                               |
|-------------------------------|-------------------------------|
| Product standard              | EN 13501-1 (2007) + A1 (2009) |
| Production batch/piece number | 18/190301190302               |
| Date of carpet finishing      | 04-03-2019                    |
| FR treated                    | yes                           |
| FR-surface treatment          | no                            |
| Type of manufacture           | Tufted                        |
| Use-surface                   | PA                            |
| Substrate, support            | Fibre fleece                  |
| Backing layer                 | PVC                           |
| Total mass                    | 4500 g/m <sup>2</sup>         |
| Pile thickness                | 5.5 mm                        |
| Total thickness               | 8 mm                          |
| Surface structure             | Loop pile                     |

**Notified body No: 0493**

# استاندارد واکنش به آتش

## استاندارد واکنش به آتش ای ان ۱۳۵۰۱



Analysis Report 19.01450.01  
Date 30-04-2019  
Page 3/6

**Reference:** T1905440 - 100 % Solution dyed Nylon carpet tile

### Reaction to fire tests – Ignitability of building products subjected to direct impingement of flame - Single-flame source test

Product standard EN 13501-1 (2007) + A1 (2009)

Classification of textile floor coverings in accordance with EN 14041 (2004) § 4.1.4

“The textile floor coverings listed in Table 2, in the end uses identified in the table, are classified without further testing (CWFT) in the classes shown and do not require testing in respect of these end uses and classes”.

**Table 2 – Classes of reaction to fire for textile floor coverings, classified without further testing**

| Floor covering type <sup>1</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EN product standard | Class <sup>3</sup> Floorings |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------|
| Non-FR machine-made wall-to-wall carpets and pile carpet tiles <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | EN 1307             | E <sub>n</sub>               |
| Non-FR needled textile floor coverings without pile <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EN 1470             | E <sub>n</sub>               |
| Non-FR needled textile floor coverings with pile <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EN 13297            | E <sub>n</sub>               |
| <sup>1</sup> ) Floor covering glued or loose laid over a Class A2-s1,d0 substrate<br><sup>2</sup> ) Textile floor coverings having a total mass of max. 4.8 kg/m <sup>2</sup> , a minimum pile thickness of 1,8 mm (ISO 1766) and <ul style="list-style-type: none"> <li>- a surface of 100% wool</li> <li>- a surface of 80% wool or more – 20% polyamide or less</li> <li>- a surface of 80% wool or more – 20% polyamide/polyester or less</li> <li>- a surface of 100% polyamide</li> <li>- a surface of 100% polypropylene and if with SBR-foam backing, a total mass of &gt; 0.780 kg/m<sup>2</sup>. All polypropylene carpets with other foam backings are excluded.</li> </ul> <sup>3</sup> ) Class as provided for in Table 2 in the Annex to Decision 2000/147/EC. |                     |                              |

**Classification**

**Class E<sub>n</sub>**

# استاندارد واکنش به آتش

## استاندارد واکنش به آتش ای ان ۱۳۵۰۱



Analysis Report 19.01450.01  
Date 30-04-2019  
Page 4/6

**Reference:** T1905440 - 100 % Solution dyed Nylon carpet tile

**Reaction to fire tests for floorings - Determination of the burning behaviour using a radiant heat source**

|                             |                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------|
| Date of ending the test     | 26-04-2019                                                                        |
| Standard used               | EN ISO 9239-1 (2010)                                                              |
| Product standard            | EN 13501-1 (2007) + A1 (2009)                                                     |
| Deviation from the standard | -                                                                                 |
| Conditioning                | 23°C, relative humidity 50%<br>Minimum 14 days or until constant mass is achieved |

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.

**Test specimen**

|                                 |                                                              |
|---------------------------------|--------------------------------------------------------------|
| Substrate                       | Fibre cement board - density $(1800 \pm 200) \text{ kg/m}^3$ |
| Mounting                        | Loose-laid                                                   |
| Specimens have not been cleaned |                                                              |
| Joint                           | At 25 cm and 75 cm                                           |

Performed under accreditation in the fire lab under the responsibility of Mike De Vrieze

# استاندارد واکنش به آتش

## استاندارد واکنش به آتش ای ان ۱۳۵۰۱



Analysis Report 19.01450.01  
Date 30-04-2019  
Page 5/6

### Radiant heat flux

|         | Flame spread distance (cm) |        |        | Flame time  | Heat flux * |
|---------|----------------------------|--------|--------|-------------|-------------|
|         | 10 min                     | 20 min | 30 min |             |             |
| Length  |                            |        |        |             |             |
| #1      | 20                         | 31     | 38     | 30 min 00 s | 5.8         |
| Width   |                            |        |        |             |             |
| #1      | 20                         | 30     | 39     | 30 min 00 s | 5.6         |
| #2      | 19                         | 20     | 38     | 30 min 00 s | 5.8         |
| #3      | 19                         | 27     | 35     | 30 min 00 s | 6.4         |
| Average |                            |        |        |             | 5.9         |

\* Heat flux at the time of flame extinguishment or after a test duration of 30 minutes.

| Fire classification in accordance with EN 13501-1 (2007) + A1 (2009) |                        |                                           |
|----------------------------------------------------------------------|------------------------|-------------------------------------------|
| Class                                                                | EN ISO 11925-2 or CWFT | EN ISO 9239-1<br>(test duration = 30 min) |
| B <sub>n</sub>                                                       | E <sub>n</sub>         | heat flux $\geq 8,0$ kW/m <sup>2</sup>    |
| C <sub>n</sub>                                                       | E <sub>n</sub>         | heat flux $\geq 4,5$ kW/m <sup>2</sup>    |
| D <sub>n</sub>                                                       | E <sub>n</sub>         | heat flux $\geq 3,0$ kW/m <sup>2</sup>    |

### Smoke production: Light attenuation

|         | Maximum (%) | Total (%.min) |
|---------|-------------|---------------|
| Length  |             |               |
| #1      | 23          | 118           |
| Width   |             |               |
| #1      | 26          | 152           |
| #2      | 21          | 138           |
| #3      | 24          | 129           |
| Average |             | 140           |

| Additional classification in accordance with EN 13501-1 (2007) + A1 (2009) |    |
|----------------------------------------------------------------------------|----|
| smoke production $\leq 750\%.\text{min}$                                   | s1 |
| smoke production $> 750\%.\text{min}$                                      | s2 |

Performed under accreditation in the fire lab under the responsibility of Mike De Vrieze

# استاندارد واکنش به آتش

## استاندارد واکنش به آتش ای ان ۱۳۵۰۱



Analysis Report 19.01450.01  
Date 30-04-2019  
Page 6/6

### Reaction to fire classification : C<sub>n</sub>/s1

*Loose-laid on a non-combustible substrate\**

*\* End use substrates of classes A1 or A2-s1, d0 (EN 13238:2010 § 5.2.2)*

### Limitations

This classification document does not represent type approval or certification of the product.

INRICHTING ERKEND BIJ TOEPASSING VAN DE BESLUITWET VAN 30 JANUARI 1947 / ETABLISSEMENT RECONNU PAR APPLICATION DE L'ARRÊTÉ-LOI DU 30 JANVIER 1947

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استاندارد شعله وری  
استاندارد مقاومت در برابر آتش



Test Number: 143602

PO Box 1948 - 1503 East Morris Street - Dalton, GA 30722  
Phone: 706-278-3013 • Fax: 706-272-7057 • E-mail: info@ittslab.com

Test Report

Customer: Standard Carpets Ind. LLC.

April 1, 2014

Subject: "Consumer Product Safety Commission (CPSC) FF 1-70"  
"16 CFR 1630"  
"ASTM D 2859-96"  
"Consumer Product Safety Improvement Act"

**Scope:** This test method covers the determination of the flammability of finished textile floor covering materials when exposed to an ignition source under controlled laboratory conditions. It is applicable to all types of textile floor coverings regardless of the method of fabrication or whether they are made from natural or man-made fibers.

FLAMMABILITY TEST REPORT

| STYLE                                              | COLOR | ROLL | TESTED | PASSED |
|----------------------------------------------------|-------|------|--------|--------|
| Solution Dyed Nylon Carpet Tile with Vinyl Backing | --    | --   | 8      | 8      |

CPSIA  
Consumer Product Safety  
Commission Accredited  
Laboratory: ID 1288



NVLAP  
NVLAP CODE 100166-0  
This test report does not imply product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

APPROVED  
MEETS OR EXCEEDS  
FEDERAL FLAMMABILITY  
STANDARD CPSC FF 1-70

President L. Kent Suddeth

Our letters and reports are for the exclusive use of the customer to whom they are addressed, and their communication to any others or the use of the name of Independent Textile Testing Service, Inc., must receive our prior written approval. Our letters and reports apply only to the sample tested and are not necessarily indicative of the qualities of apparently identical or similar products. The reports and letters and the name of Independent Textile Testing Service, Inc., are not to be used under any circumstances in advertising to the general public.

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استاندارد واکنش به آتش  
ENISO۹۲۳۹ استاندارد واکنش به آتش



Standard Carpets ind llc  
P.O. Box No. 490014 Dubai Industrial Park  
DUBAI  
United Arab Emirates

Your notice of  
26-01-2022

Your reference

Date  
18-02-2022

Analysis Report 22.00462.02

Required tests :

AS ISO 9239-1 (2003)

Reaction to fire tests for floorings - Determination of the  
burning behaviour using a radiant heat source

| Sample id | Information given by the client | Date of receipt |
|-----------|---------------------------------|-----------------|
| T2201522  | DOMAIN                          | 26-01-2022      |

Kristina De Temmerman  
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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GENT • Technologiepark 70 • BE-9052 Zwijnaarde, Belgium • phone +32 9 220 41 51 • fax +32 9 220 49 55 • [gent@centexbel.be](mailto:gent@centexbel.be)  
GRÂCE-HOLLOGNE • Rue du Travail 5 • BE-4460 Grâce-Hollogne, Belgium • phone +32 4 296 82 00 • [g-h@centexbel.be](mailto:g-h@centexbel.be)  
KORTRIJK • Etienne Sabbelaan 49 • BE-8500 Kortrijk, Belgium • phone +32 56 29 27 00 • fax +32 56 29 27 01 • [info@vkc.be](mailto:info@vkc.be)  
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# استاندارد واکنش به آتش

## ENISO۹۲۳۹ استاندارد واکنش به آتش



Analysis Report 22.00462.02  
Date 18-02-2022  
Page 2/3

Reference: T2201522 - DOMAIN

**Reaction to fire tests for floorings - Determination of the burning behaviour using a radiant heat source**

Date of ending the test 16-02-2022  
Standard used AS ISO 9239-1 (2003)  
Deviation from the standard -  
Conditioning 23°C, relative humidity 50%  
Minimum 14 days or until constant mass is achieved

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.

**Test specimen**

Substrate Fibre cement board - density  $(1800 \pm 200)$  kg/m<sup>3</sup>  
Mounting Loose-laid  
Specimens have not been cleaned

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# استاندارد واکنش به آتش

## ENISO۹۲۳۹ استاندارد واکنش به آتش

Analysis Report 22.00462.02  
Date 18-02-2022  
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### Radiant heat flux

|         | Flame spread distance (cm) |        |        |                  | Flame time  | Heat flux kW/m <sup>2</sup> |                    |
|---------|----------------------------|--------|--------|------------------|-------------|-----------------------------|--------------------|
|         | 10 min                     | 20 min | 30 min | Extin-guish-ment |             | 30 min*                     | Extin-guish-ment** |
| Length  |                            |        |        |                  |             |                             |                    |
| #1      | 26                         | 37     | 40     | 40               | 29 min 03 s | 5.1                         | 5.1                |
| Width   |                            |        |        |                  |             |                             |                    |
| #1      | 32                         | 42     | 42     | 42               | 32 min 27 s | 4.8                         | 4.8                |
| #2      | 33                         | 44     | 45     | 45               | 28 min 51 s | 4.4                         | 4.4                |
| #3      | 29                         | 41     | 44     | 44               | 27 min 04 s | 4.5                         | 4.5                |
| Average |                            |        |        |                  |             | 4.6                         | 4.6                |

\* Heat flux at the time of 30 minutes

\*\* Heat flux at the time of flame extinguishment

### Smoke production: Light attenuation

|         | Maximum (%) |                  | Total (%.min) |                  |
|---------|-------------|------------------|---------------|------------------|
|         | 30 min      | Extin-guish-ment | 30 min        | Extin-guish-ment |
| Length  |             |                  |               |                  |
| #1      | 21          | 21               | 121           | 121              |
| Width   |             |                  |               |                  |
| #1      | 16          | 16               | 114           | 114              |
| #2      | 32          | 32               | 165           | 165              |
| #3      | 21          | 21               | 125           | 125              |
| Average |             |                  | 135           | 135              |

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