

TEST REPORT

No. : XMCCM190400132

Date : Apr.08, 2019

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DMD FLOOR (DMD GAYRIMENKUL YATIRIMLARI A.Ş.)

ZAFER MAH EKIN CAD NO:23/4 / İSTANBUL/ TURKEY

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

Sample description : DMD FLOOR LARA COMMERCIAL HOMOGENOUS PVC
FLOOR COVERING

SGS Ref No. : SDHG100100108APR

Materials : PVC

Type/ model : 20m×2m×2.0mm

Test Required : Selected test(s) as requested by applicant

Date of Receipt : March 04, 2019

Test Period : March. 04, 2019 to April 08,2019

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

Test Result Summary

| No. | Test(s) Requested | Result(s) | Comments |
|-----|----------------------------|---------------------------|----------|
| 1 | EN 13501-1:2007+A1:2009(E) | classification: Bfl-s1 | - |

***** To be continued*****

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd. XM Branch Testing Center



Civi Huang
Authorized Signatory



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I. Test Conducted

EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests, Class B_{fl}. And the test methods as following:

1. EN ISO 9239-1:2010 Reaction to fire tests for floorings—Part 1: Determination of the burning behaviour using a radiant heat source.
2. EN ISO 11925-2:2010 Reaction to fire tests — Ignitability of building products subjected to direct impingement of flame — Part 2: Single-flame source test.

II. Sample description

| | |
|----------------------------------|---|
| Sample Name (supplied by client) | DMD FLOOR LARA COMMERCIAL HOMOGENOUS PVC FLOOR COVERING |
| Color | Blue |
| Weight | 2.85 kg/m ² |
| Thickness (mm) | About 2.0mm |

III. Test Result

1. EN ISO 9239-1:2002 Reaction to fire tests for floorings - Part 1: Determination of the burning behaviour using a radiant heat source

| Specimen No. | Furthest extent of spread of flame(mm) | Critical Heat Flux (CHF or HF-30) kW/m ² | Comments and Observation |
|--|--|---|--------------------------|
| 1 | 150 | 10.24 | Charring |
| 2 | 160 | 10.10 | Charring |
| 3 | 180 | 9.82 | Charring |
| The mean value for the critical heat flux (CHF and/or HF-30) of the three specimens from the same orientation: 10.05 kW/m ² | | | |
| Smoking measurement Integrated smoke value: 1.624 %×min | | | |

***** To be continued*****



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2. EN ISO 11925-2: 2002 Reaction to fire tests — Ignitability of building products subjected to direct impingement of flame — Part 2: Single-flame source test

| | |
|------------------------|---------------------------------|
| Ignition Position | Face Ignition and Edge ignition |
| Flame Application Time | 15s |

| Expression of results | Specimen No. & Result | | | | | |
|---|-----------------------|----|----|---------------|-----|-----|
| | Face Ignition | | | Edge ignition | | |
| | 1 | 2 | 3 | 4 | 5 | 6 |
| Whether ignition occurs (Yes/No) | No | No | No | Yes | Yes | Yes |
| Whether the flame tip reaches 150 mm above the flame application point, and the time at which this occurs (No/Time) | No | No | No | No | No | No |
| Whether ignition of the filter paper occurs (Yes/No) | No | No | No | No | No | No |

IV. Classification and direct field of application

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

Classification

The product, "Ethylene base surface", classification is as following,

| Fire behaviour | | Smoke production | |
|-----------------|---|------------------|---|
| B _{fl} | — | s | 1 |

Reaction to fire classification: B_{fl} — s1

Remark: The classes with their corresponding fire performance are given in annex A.

Reaction to fire classification is based on the 7-step scale of A1_{fl}, A2_{fl}, B_{fl}, C_{fl}, D_{fl}, E_{fl} 和 F_{fl}, where A1_{fl} is good and F_{fl} is bad.

***** To be continued*****

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Statement: 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.

Warning: This classification report does not represent type approval or certification of the product. The test laboratory has, therefore, play no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.

Annex A

Classes of reaction to fire performance for floorings

| Class | Test method(s) | Classification criteria | Additional classification |
|------------------|--|--|-------------------------------|
| A1 _{fl} | EN ISO 1182 ^a and | $\Delta T \leq 30 \text{ }^\circ\text{C}$; and $\Delta m \leq 50 \%$; and $t_f = 0$ (i.e. no sustained flaming) | - |
| | EN ISO 1716 | $PCS \leq 2,0 \text{ MJ/kg}^a$ and $PCS \leq 2,0 \text{ MJ/kg}^b$ and $PCS \leq 1,4 \text{ MJ/m}^2^c$ and $PCS \leq 2,0 \text{ MJ/kg}^d$ | - |
| A2 _{fl} | EN ISO 1182 ^a or | $\Delta T \leq 50 \text{ }^\circ\text{C}$ and $\Delta m \leq 50 \%$ and $t_f \leq 20 \text{ s}$ | - |
| | EN ISO 1716 and | $PCS \leq 3,0 \text{ MJ/kg}^a$ and $PCS \leq 4,0 \text{ MJ/m}^2^b$ and $PCS \leq 4,0 \text{ MJ/m}^2^c$ and $PCS \leq 3,0 \text{ MJ/kg}^d$ | - |
| | EN ISO 9239-1 ^e | Critical flux $f \geq 8,0 \text{ kW/m}^2$ | Smoke production ^g |
| B _{fl} | EN ISO 9239-1 ^e and | Critical flux $f \geq 8,0 \text{ kW/m}^2$ | Smoke production ^g |
| | EN ISO 11925-2 ^h : Exposure = 15 s | $F_s \leq 150 \text{ mm}$ within 20 s | |
| C _{fl} | EN ISO 9239-1 ^e and | Critical flux $f \geq 4,5 \text{ kW/m}^2$ | Smoke production ^g |
| | EN ISO 11925-2 ^h : Exposure = 15 s | $F_s \leq 150 \text{ mm}$ within 20 s | |

***** To be continued*****



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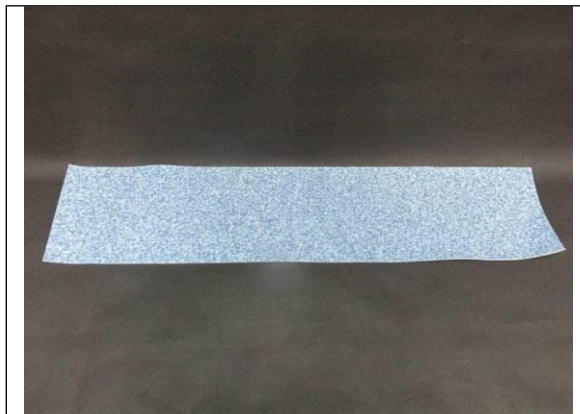
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| | | | |
|-----------------|--|--|-------------------------------|
| D _{fl} | EN ISO 9239-1 ^e and | Critical flux ^f ≥ 3,0 kW/m ² | Smoke production ^g |
| | EN ISO 11925-2 ^h : Exposure = 15 s | F _s ≤ 150 mm within 20 s | |
| E _{fl} | EN ISO 11925-2 ^h : Exposure = 15 s | F _s ≤ 150 mm within 20 s | |
| F _{fl} | No performance determined | | |

- ^a For homogeneous products and substantial components of non-homogeneous products.
- ^b For any external non-substantial component of non-homogeneous products.
- ^c For any internal non-substantial component of non-homogeneous products.
- ^d For the product as a whole.
- ^e Test duration = 30 min.
- ^f Critical flux is defined as the radiant flux at which the flame extinguishes or the radiant flux after a test period of 30 min, whichever is the lower (i.e. the flux corresponding with the furthest extent of spread of flame).
- ^g **s1** = Smoke ≤ 750 % minutes;
s2 = not s1.
- ^h Under conditions of surface flame attack and, if appropriate to the end use application of the product, edge flame attack

Note: The above test was carried out by a SGS internal laboratory.

Specimens photograph:



SGS authenticate the photo on original report only

Note: This test report is the English version of test report No. **XMCCM190400132**
(Issued Apr. 08, 2019).

***** End of report*****



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