

No.: XMIN2211009356CM

Date: Dec 06, 2022

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CUSTOMER NAME: EIKON LTD

ADDRESS: 38 PORT ROYAL AVENUE, LUNE INDUSTRIAL ESTATE,

LANCASTER, UNITED KINGDOM

Sample Name : PVC FREE ADHESIVE FILM

Product Specification : IP EG 9501 Material and Mark : PO Film

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No. : SDFS2211007430FF

Date of Receipt : Nov 17, 2022
Testing Start Date : Nov 17, 2022
Testing End Date : Dec 06, 2022

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

(Unless otherwise stated the results shown in this test report refer only to

the sample(s) tested)

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

Bryan Hong

Authorized signatory



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Test Result Summary

| Test(s) Requested | Result(s) |
|--|--------------------------|
| EN 13501-1:2018 Fire classification of construction products and building elements-Part 1: Classification using data from reaction to fire tests | Classification: B-s1, d0 |
| Summary: | |
| 1. For further details, please refer to the following page(s). | |



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TESTS AND RESULTS

Test Conducted:

This test is conducted as per EN 13501-1:2018 Fire classification of construction products and building elements-Part 1: Classification using data from reaction to fire tests. And the test methods as following:

- EN 13823:2020 Reaction to fire tests for building products-Building products excluding floorings exposed to the thermal attack by a single burning item.
- 2. EN ISO 11925-2:2020 Reaction to fire tests-Ignitability of building products subjected to direct impingement of flame-Part 2: Single-flame source test.

Mounting and fixing (For EN 13823:2020):

Test substrate was calcium silicate board meets the requirement of EN13501-1, of Class A2-s1, d0, the density of 900 kg/m³ and thickness of 10mm.

As per client's requirement, the sample was self-adhesive to the substrate.

Test Results:

| Test method | <u>Parameter</u> | Number of tests | <u>Results</u> |
|---------------------|---|--------------------|----------------|
| EN 13823:2020 | FIGRA _{0.2MJ} (W/s) | | 15.3 |
| | FIGRA _{0.4MJ} (W/s) | | 15.3 |
| | THR _{600s} (MJ) | | 0.9 |
| | SMOGRA (m²/s²) | | 0.8 |
| | TSP _{600s} (m ²) | 3 | 9.4 |
| | LFS < edge of specimen (Yes/No) | | Yes |
| | Flaming particles or droplets within 600s (Yes/No); Combustion time, if any burning time: (≤10s / >10s) | | No |
| EN ISO 11925-2:2020 | 11925-2:2020 | | Yes |
| Exposure = 30 s | Ignition of the filter paper | 12 | No |

Remark:

FIGRA-Fire growth rate index used for classification purposes [W/s]

For the classes A2 and B, FIGRA_{0.2}MJ

For the classes C and D, FIGRA_{0.4}MJ

LFS-Lateral flame spread [m]

THR_{600s}-Total heat release within 600 s [MJ]

SMOGRA-Smoke growth rate [m²/s²]

TSP_{600s}-Total smoke production within 600 s [m²]



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Classification and direct field of application:

This classification has been carried out in accordance with EN 13501-1:2018.

Classification:

| Fire behaviour | | Smoke p | roduction | | Flaming | droplets |
|----------------|---|---------|-----------|---|---------|----------|
| В | _ | S | 1 | , | d | 0 |

Remark:

The classes with their corresponding fire performance are given in Table 1.

Reaction to fire classification is based on the 7-step scale of A1 to F, where A1 is the highest level and F is the lowest level.

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.



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Table 1 — Classes of reaction to fire performance for construction products excluding floorings

and linear pipe thermal insulation products.

| Class | Test method(| | Classification criteria | Additional classification | |
|----------------------------------|--|---|---|---|--|
| | EN ISO 1182 a and | | <i>∆T</i> ≤30°C, and <i>∆m</i> ≤50%, and | - | |
| A1 EN ISO 1716 | | ô | t∈0(i.e. no sustained flaming) PCS≤2.0MJ/kg ^a and PCS≤2.0MJ/kg ^{b c} and PCS≤1.4MJ/m ^{2 d} and PCS≤2.0MJ/kg ^e | - | |
| | EN ISO 1182 ^a or | | <i>∆ T</i> ≤50°C, and <i>∆ m</i> ≤50%, and t _f ≤20 s | - | |
| A2 | EN ISO 1716 | and | PCS≤3.0MJ/kg ^a and PCS≤4.0MJ/m ² ^b and PCS≤4.0MJ/m ² ^d and PCS≤3.0MJ/kg ^e | - | |
| EN 13823 | | FIGRA≤120W/s and LFS <edge and<br="" of="" specimen="">THR_{600s}≤7.5MJ</edge> | Smoke production ^f and Flaming droplets/particles ^g | | |
| В | EN 13823 | and | FIGRA≤120W/s and LFS <edge and<br="" of="" specimen="">THR600s≤7.5MJ</edge> | Smoke production ^f and | |
| EN ISO 11925-2 Exposure =30s | | | Fs≤150mm within 60 s | Flaming droplets/particles ^g | |
| С | EN 13823 | and | FIGRA≤250W/s and LFS <edge and<br="" of="" specimen="">THR600s≤15MJ</edge> | Smoke production ^f and | |
| EN ISO 119 Exposure= | | | Fs≤150mm within 60 s | Flaming droplets/particles ^g | |
| D | EN 13823 | and | FIGRA≤750W/s | Smoke production ^f and | |
| EN ISO 11925-2 i Exposure=30s | | Fs≤150mm within 60 s | Flaming droplets/particles ⁹ | | |
| E | EN ISO 11925-2 i Exposure =15s | | Fs≤150mm within 20 s | flaming droplets/particles h | |
| F | EN ISO 11925-2 ⁱ Exposure =15s | | Fs>150mm within 20 s | - | |



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- ^a For homogeneous products and substantial components of non-homogeneous products.
- ^b For any external non-substantial component of non-homogeneous products.
- ° Alternatively, any external non-substantial component having a PCS ≤ 2,0 MJ/m², provided that the product satisfies the following criteria of EN 13823: FIGRA ≤ 20 W/s, and LFS < edge of specimen, and THR_{600s} ≤ 4,0 MJ, and s1, and d0.
- ^d For any internal non-substantial component of non-homogeneous products.
- e For the product as a whole.
- f In the last phase of the development of the test procedure, modifications of the smoke measurement system have been introduced, the effect of which needs further investigation. This may result in a modification of the limit values and/or parameters for the evaluation of the smoke production.
- $s1 = SMOGRA \le 30m^2/s^2$ and $TSP_{600s} \le 50m^2$; $s2 = SMOGRA \le 180m^2/s^2$ and $TSP_{600s} \le 200m^2$; $s3 = not \ s1$ or s2
- g d0 = No flaming droplets/ particles in EN 13823 within 600 s;
- d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s;

d2 = not d0 or d1.

Ignition of the paper in EN ISO 11925-2 results in a d2 classification.

- ^h Pass = no ignition of the paper (no classification);
- Fail = ignition of the paper (d2 classification).
- ⁱ Under conditions of surface flame attack and, if appropriate to the end–use application of the product, edge flame attack.

SAMPLE INFORMATION AND PICTURES

Area Density of the test specimen: 93.4g/m²

Note: The above test project/method was carried out by subcontractors.



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Before Test (EN 13823) After

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

After Test (EN 13823)



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