



EFFECTIS ERA AVRASYA
TEST VE BELGELENDİRME A.Ş.

Dilovası Organize San. Böl. 5.Kısım Fırat Cad.No:18 41455

Dilovası, Kocaeli / TÜRKİYE

DENEY RAPORU

TEST REPORT

FTST23521

06-23

Müşterinin adı/adresi
Customer name/address

: HASSAN TEKSTİL SANAYİ VE TİC. A.Ş.
Akçaburgaz mah. Hadımköy Yolu No:88 Esenyurt, İstanbul / TÜRKİYE

İstek numarası
Order No.

: EEA-23-000342

Numunenin adı ve tanımı
Name and identity of test sample

: Needled Punch Industrial Felt

Numunenin kabul tarihi
The date of receipt of sample

: 28.03.2023

Açıklamalar
Remarks

:

Deneyin yapıldığı tarih
Date of test

: 09.05.2023

Raporun sayfa sayısı
Number of pages of the Report

: 4 (5 pages including appendixes)

Mühür
Seal

Tarih
Date

Deney Sorumlusu
Person in charge of test

Onaylayan
Approval



06.06.2023

e-signed
Uğur ÇAVAŞ

e-signed
Ali BAYRAKTAR

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz.

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TEST REPORT

on Fire and Technical Characteristics

Our ref.: EEA-23-000342

Sponsor: HASSAN TEKSTİL SANAYİ VE TİC. A.Ş.

Akçaburgaz mah. Hadımköy Yolu No:88 Esenyurt, İstanbul / TÜRKİYE

TEST ITEM

Product name: Needled Punch Industrial Felt

Manufacturing Plant: HASSAN TEKSTİL SANAYİ VE TİC. A.Ş.

Akçaburgaz mah. Hadımköy Yolu No:88 Esenyurt, İstanbul / TÜRKİYE

Composition: Fibre needled polyester felt

Appearance: Colour of the fibre needled polyester felt acoustic panel is 5 mm and mass per unit area is 1 kg/m².

Mounting of the samples: Sample size was obtained by placing 5 pieces with dimensions of 520 mm wide and 1500 mm long toward the exhaust end. Samples were stacked side by side without overlapping and adjacent to each other without any additional fixing. Samples were assembled according to ASTM E84, clause A5 and ASTM E2404. Total length of the sample is 7500 mm and the width is 520 mm. A fibre cement board specified in ASTM E84, clause A3 was placed between the top lid and the back surface of the sample.

Date of receipt of the sample: 28.03.2023

Date of realization of tests: 09.05.2023

Sampling: Samples were delivered by the sponsor.

Test Method: ASTM E84 - 23

Conditioning: ASTM E84 - 23, clause 6.4 (23 °C ± 2.8 °C) temperature & (50% ± 5%) RH

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MEASURED VALUES AND THE TEST RESULTS

FSI [m.min]	6,38
FSI [ft.min]	20,93
SDI [%min]	416,71
Rounded FSI [ft.min]	20
Rounded SDI [%min]	400

Observation during the test:

- Ignition was observed at the beginning of the test.
- Meltings and drippings were observed from the sample.

Conclusion:

The test results relate to the behaviour of the test specimen 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 of use. The results of tests are concerned only with the subject of testing.

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Brand, type, quality and dimension information of the components, when it is not possible to be verified by the laboratory, are given according to the sponsor's declaration and the responsibility belongs to the sponsor. The test specimens are tested as received from the sponsor (when the laboratory does not carry out sampling).

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz.

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Classification:

The International Building Code® (IBC), NFPA 101 and NFPA 5000 all describe a set of classification criteria required for interior wall and ceiling finish materials based on FSI and SDI when tested in accordance with ASTM E84 or UL 723.

The classification criteria for all three standard is the same:

Class	Rounded FSI [ft.min]	Rounded SDI [%min]
A	0-25	0-450
B	26-75	0-450
C	76-200	0-450

Appendix:

The graphs of the measured and calculated values

FSI: Flame spread index

SDI: Smoke developed index

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