

**CLASSIFICATION OF REACTION TO FIRE
IN ACCORDANCE WITH
EN 13501-1:2018**

Sponsor : GENTUĞ TEKSTİL ÜRÜNLERİ SAN. VE TİC. A.Ş.
Keresteciler Sitesi Savaş Cad. Söğüt Sk. No:1 Güngören,
İstanbul / TÜRKİYE

Prepared by : EFFECTIS ERA AVRASYA TEST VE BELGELENDİRME A.Ş.
Dilovası OSB Mah. Fırat Cad. No: 18
Dilovası, Kocaeli / TÜRKİYE

Product name : AK 1100 - 9 mm

Classification : ERA-23-318
Report no.

Issue Number : 1/2

Date of Issue : 26.12.2023

This classification report consists of 5 pages and may only be used or reproduced in its entirety.

1. INTRODUCTION

This classification report defines the classification assigned to “AK 1100 - 9 mm” in accordance with the procedures given in EN 13501-1:2018.

2. DETAILS OF CLASSIFIED PRODUCT

2.1. General:

AK 1100 - 9 mm is defined as a “type of classified product”.

2.2. Description:

AK 1100 - 9 mm is fully described in the test reports in support of the classification listed in clause 3.1.

Manufacturing plant: GENTUĞ TEKSTİL ÜRÜNLERİ SAN. VE TİC. A.Ş.
Birinci Organize San. Böl. İstiklal Mah. No:1, Beyköy, Düzce / TÜRKİYE

Tested product types:

Product name	Thickness [mm]	The mass per unit area [g/m ²]	Colour	Content
AK 1100 - 9 mm	9	1100	Black	Polyester based acoustic felt

3. REPORTS AND RESULTS IN SUPPORT OF CLASSIFICATION

3.1. Reports

Name of laboratory	Name of sponsor	Report ref. no.	Test method and date Field of application rules and date
EFFECTIS ERA AVRASYA TEST VE BELGELENDİRME A.Ş.	GENTUĞ TEKSTİL ÜRÜNLERİ SAN. VE TİC. A.Ş.	FTST231293	EN 13823:2020+A1:2022
		FTST231294	EN ISO 11925-2:2020
		FTST231295	EN ISO 11925-2:2020

3.2. Results

Test method	Parameter	Number of test	Results	
			Continuous parameter mean (m)	Continuous parameter mean
EN 13823+A1	FIGRA _{0,2 MJ} (W/s)	3	97,4	(-)
	FIGRA _{0,4 MJ} (W/s)	3	65,7	(-)
	LFS > edge	3	No	No
	THR _{600 s} (MJ)	3	2,3	(-)
	SMOGRA (m ² /s ²)	3	13,2	(-)
	TSP _{600 s} (m ²)	3	29,7	(-)
EN ISO 11925-2 Flame application: 30 s	Flaming droplet(s)/particle (s)	3	None	None
	Fs ≤ 150 mm ⁽¹⁾	6	Yes	Yes
	Ignition of filter paper ⁽¹⁾	6	No	No
	Fs ≤ 150 mm ⁽²⁾	6	Yes	Yes
	Ignition of filter paper ⁽²⁾	6	No	No
(-): Not applicable (1): Surface flame attack (2): Edge flame attack				

Test method	Parameter	Classification result	Compliance parameters
EN 13823+A1	FIGRA _{0,2 MJ} (W/s)	97,4	≤ 120 (B)
	LFS > edge	No	No (B)
	THR _{600 s} (MJ)	2,3	≤ 7,5 (B)
	SMOGRA (m ² /s ²)	13,2	≤ 30 (s1)
EN ISO 11925-2	TSP _{600 s} (m ²)	29,7	≤ 50 (s1)
	Flaming droplets/particles (s)	None	None (d0)
EN ISO 11925-2	Fs ≤ 150 mm	Yes	Yes (B – D)
	Ignition of filter paper	No	No (d0)
(-): Not applicable			

4. CLASSIFICATION AND FIELD OF APPLICATION

4.1. Reference of classification

This classification has been carried out in accordance with the clauses 11.6, 11.9.2, 11.10.1 of EN 13501-1:2018.

4.2. Classification

AK 1100 - 9 mm in relation to their reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets / particles is:

d0

The format of the reaction to fire classification for *AK 1100 - 9 mm* is:

Fire behaviour		Smoke production			Flaming droplets	
B	-	s	1	,	d	0

Reaction to fire classification: B-s1,d0

4.3. Field of application

Product name	Thickness [mm]	The weight per unit area [g/m ²]	Colour	Content
<i>AK 1100 - 9 mm</i>	9	1100	Black	Polyster based acoustic felt

The classification is valid for the following end use applications;

- Applications with vertical or horizontal joints.
- Applications without air gap between carrier and product.
- Applications of the Mechanical assembly.

5. LIMITATIONS

5.1. Restrictions

This classification document does not represent type approval or certification of the product. This classification report is valid provided that the technical specifications of product are within the limits in accordance with the field of application clause 4.3. This report is initially valid until **26th December 2028** providing that no significant modifications are made in technical specification of the specimen and related test and classification standards.

Signed:



Approved:

e-signed

.....

Uğur ÇAVAŞ
Person in charge of tests

e-signed

.....

Ali BAYRAKTAR
Laboratory manager



AB-0556-T

FTST241350

11-24



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

Müşterinin adı/adresi : GENTUĞ TEKSTİL ÜRÜNLERİ SAN. VE TİC.A.Ş.
Customer name/address Keresteciler Sit. Savaş. Cad. Söğüt Sok. No:1 Güngören, İstanbul / TÜRKİYE

İstek numarası : EEA-24-001288
Order No.

Numunenin adı ve tarifi : Arketa - 177,7 kg/ m³
Name and identity of test sample

Numunenin kabul tarihi : 16.10.2024
The date of receipt of sample

Açıklamalar :
Remarks

Deneyin yapıldığı tarih : 14.11.2024
Date of test

Raporun sayfa sayısı : 4 (6 pages including appendixes)
Number of pages of the Report

Deney laboratuvarı olarak faaliyet gösteren Efectis Era Avrasya Test ve Belgelendirme A.Ş., TÜRKAK'tan AB-0556-T ile TS EN ISO/IEC 17025:2017 standardına göre akredite edilmiştir.

Efectis Era Avrasya Test ve Belgelendirme A.Ş. accredited by TÜRKAK under registration number AB-0556-T for EN ISO/IEC 17025:2017 as test laboratory"

Türk Akreditasyon Kurumu (TÜRKAK) deney raporlarının tanınması konusunda Avrupa Akreditasyon Birliği (EA) ve Uluslararası Laboratuvar Akreditasyon Birliği (ILAC) ile karşılıklı tanınma antlaşmasını imzalamıştır.

The Turkish Accreditation Agency (TÜRKAK) is signatory to the multilateral agreements of the European co-operation for the Accreditation (EA) and of the International Laboratory Accreditation (ILAC) for the Mutual recognition of test reports

Deney ve/veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve deney metotları bu sertifikanın tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir.

The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report

Mühür
Seal

Tarih
Date

Deney Sorumlusu
Person in charge of test

Onaylayan
Approval



27.11.2024

Tuğçe AKOĞLAN

Ali BAYRAKTAR

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz.

İmzasız ve mühürsüz raporlar geçersizdir.

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TEST REPORT

on Fire and Technical Characteristics

Our ref.: EEA-24-001288

Sponsor: GENTUĞ TEKSTİL ÜRÜNLERİ SAN. VE TİC.A.Ş.
Keresteciler Sit. Savaş. Cad. Söğüt Sok. No:1 Güngören, İstanbul / TÜRKİYE

TEST ITEM

Product name: Arketa - 177,7 kg/ m³

Manufacturing Plant: GENTUĞ TEKSTİL ÜRÜNLERİ SAN. VE TİC.A.Ş.
Organize Sanayi Bölgesi 13. Ada ¼ Parsel, Beykoz Belediyesi, Düzce / TÜRKİYE

Composition: Polyester felt

Appearance: Thickness of the grey polyester felt board is 9 mm and the density is 177,7 kg/m³.

Mounting of the samples: Three polyester felt samples with a width of 590 mm and a length of 2400 mm were placed. No additional support was used.

Date of receipt of the sample: 16.10.2024

Date of realization of tests: 14.11.2024

Sampling: Samples were delivered by the sponsor.

Test Method: ASTM E84 – 23d

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

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz.

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MEASURED VALUES AND THE TEST RESULTS

FSI [m.min]	0,60
FSI [ft.min]	1,97
SDI [%min]	2,32
Rounded FSI [ft.min]	0
Rounded SDI [%min]	0

Observation during the test: No specific conditions were observed during the test.

Conclusion:

The product whose test results are given above meets Class A criteria according to ASTM E84 Standard.

The test results relate to the behaviour of the test specimen of a product under the 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.

The protocol shall not be reproduced except in full without the written approval of the testing laboratory.

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.

İmzasız ve mühürlü raporlar geçersizdir.

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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 1:

The graphs of the measured and calculated values

Appendix 2:

The photograph of the samples before the test

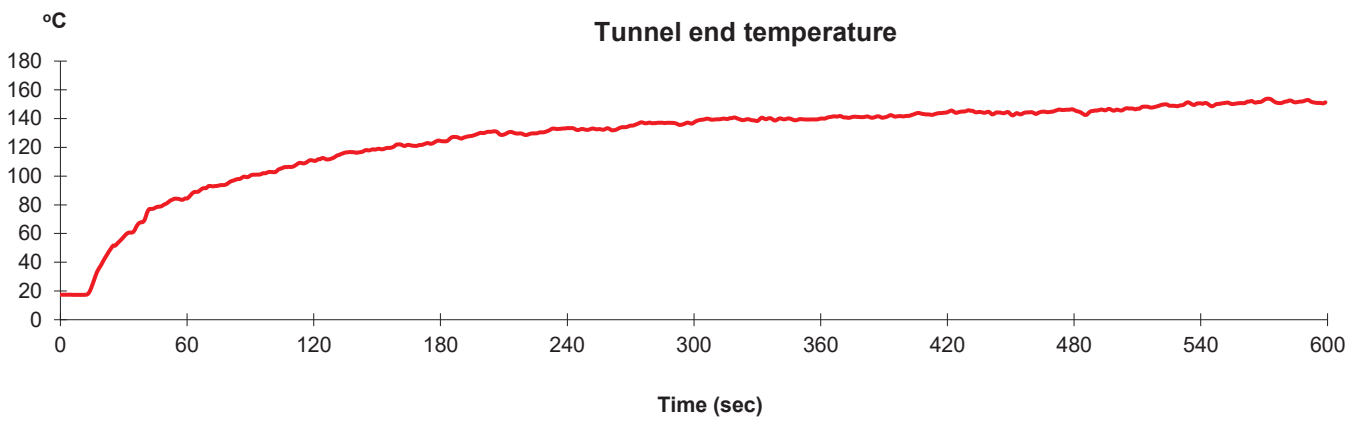
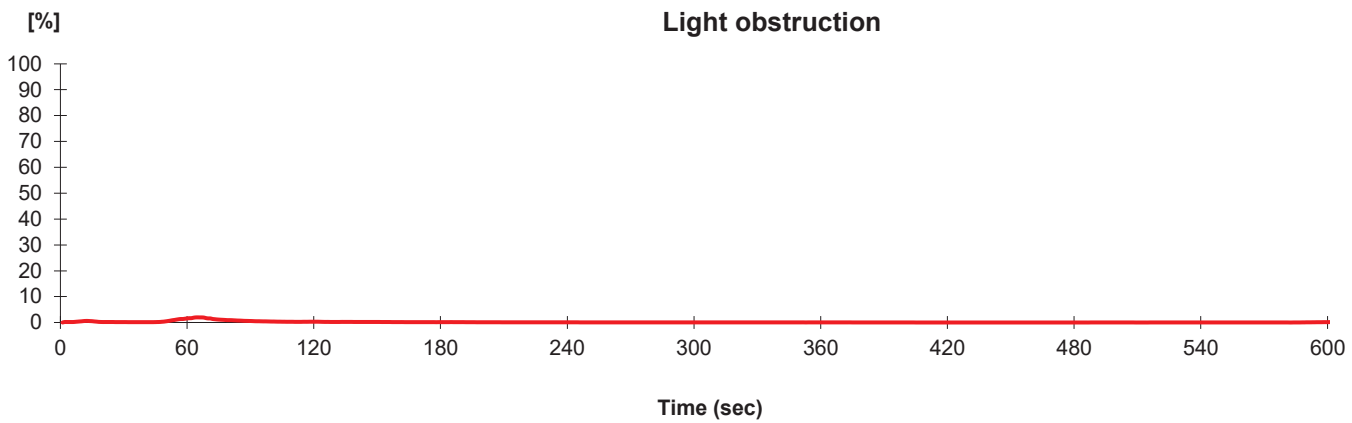
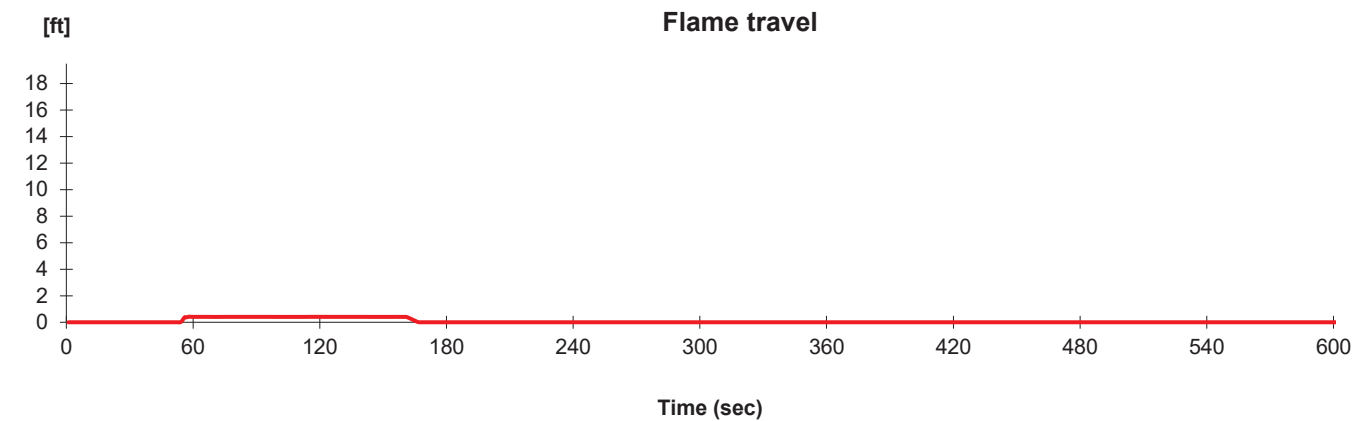
The photograph of the samples after the test

- *FSI: Flame spread index*
- *SDI: Smoke developed index*

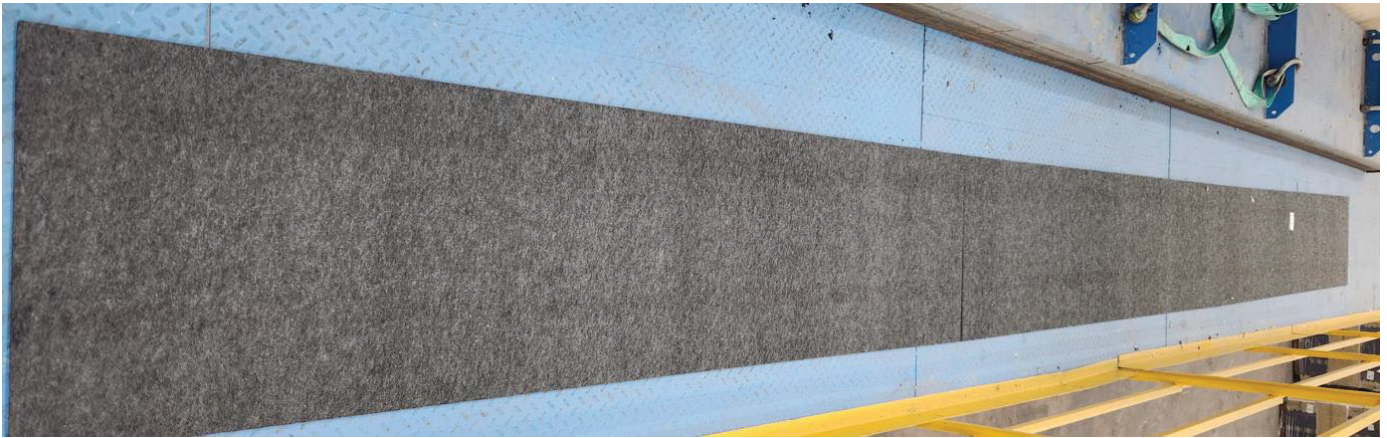
Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz.

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- Photograph of the samples prior to the test:



- Photograph of the samples after the test:

