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EN 13823:2020+A1:2022

**According to the EN 13238:2010,
Article 4.3.c, $(23 \pm 2)^{\circ}\text{C}$ and % (50 ± 5)
relative humidity**

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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



AB-0556-T

FTST231293

12-23

Müşterinin adı/adresi <i>Customer name/address</i>	: GENTUĞ TEKSTİL ÜRÜNLERİ SAN. VE TİC. A.Ş. Keresteciler Sitesi Savaş Cad. Söğüt Sk. No:1 Güngören, İstanbul / TÜRKİYE
İstek numarası <i>Order No.</i>	: EEA-23-001123
Numunenin adı ve tarifi <i>Name and identity of test sample</i>	: AK 1100 - 9 mm
Numunenin kabul tarihi <i>The date of receipt of sample</i>	: 08.11.2023
Açıklamalar <i>Remarks</i>	:
Deneyin yapıldığı tarih <i>Date of test</i>	: 06.12.2023, 07.12.2023
Raporun sayfa sayısı <i>Number of pages of the Report</i>	: 4 (7 pages including appendixes)

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.

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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



26.12.2023

e-imzalı
Uğur ÇAVAŞ

e-imzalı
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

Ref. No.: EEA-23-001123

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

TEST ITEM

Product name: AK 1100 - 9 mm

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

Composition: Black coloured polyester based acoustic felt

Appearance: The mass per unit area of the black coloured acoustic felt was 1100 g/m² and the thickness was 9 mm. The samples were fixed on the standard plasterboard substrate according to EN 13238:2010. Thickness of the plasterboard is 12 mm and nominal density is 800 kg/m³. The long wing of test specimen consists of 4 parts separated by horizontal joint at distance 500 mm from lower edge and vertical joints at distance 200 and 800 mm from the corner line.

Date of receipt of the sample: 08.11.2023 **Date of realization of tests:** 06.12.2023, 07.12.2023

Sampling: The samples were delivered by sponsor.

TEST METHOD: EN 13823:2020+A1:2022

Conditioning: According to the EN 13238:2010, Article 4.3.c, (23±2)°C and % (50±5) relative humidity.

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz.
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MEASURED VALUES AND THE TEST RESULTS

Test specimen no.	1	2	3	Ø	Expanded uncertainty
Date of test	06.12	06.12	07.12		
LFS > edge	no	no	no	no	(-)
FIGRA _{0,2} MJ [W/s]	90,8	177,0	24,4	97,4	88,4
FIGRA _{0,4} MJ [W/s]	38,4	138,5	20,2	65,7	73,6
THR _{600 s} [MJ]	2,0	3,1	1,7	2,3	1,0
SMOGRA [m ² /s ²]	14,7	2,5	0,0	13,2	14,5
TSP _{600 s} [m ²]	40,0	43,5	5,6	29,7	24,2
Flaming droplets/particles	no	no	no	no	(-)
Time of flaming [s]	(-)	(-)	(-)	(-)	(-)

Observation during the test : No flaming droplets were observed.

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz.
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Conclusion:

The mentioned expanded uncertainty is obtained by multiplying the standard uncertainty by a coverage factor $k=2$, which corresponded to a level of confidence of 95 %.

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).

Annotation:

(-): Data was not determined/measured


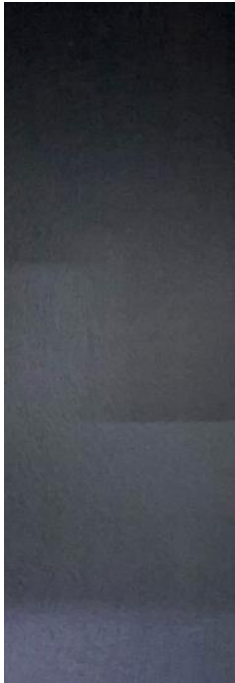
Appendixes:


Appendix No. 1: The photographs of the exposed surface of the test specimens

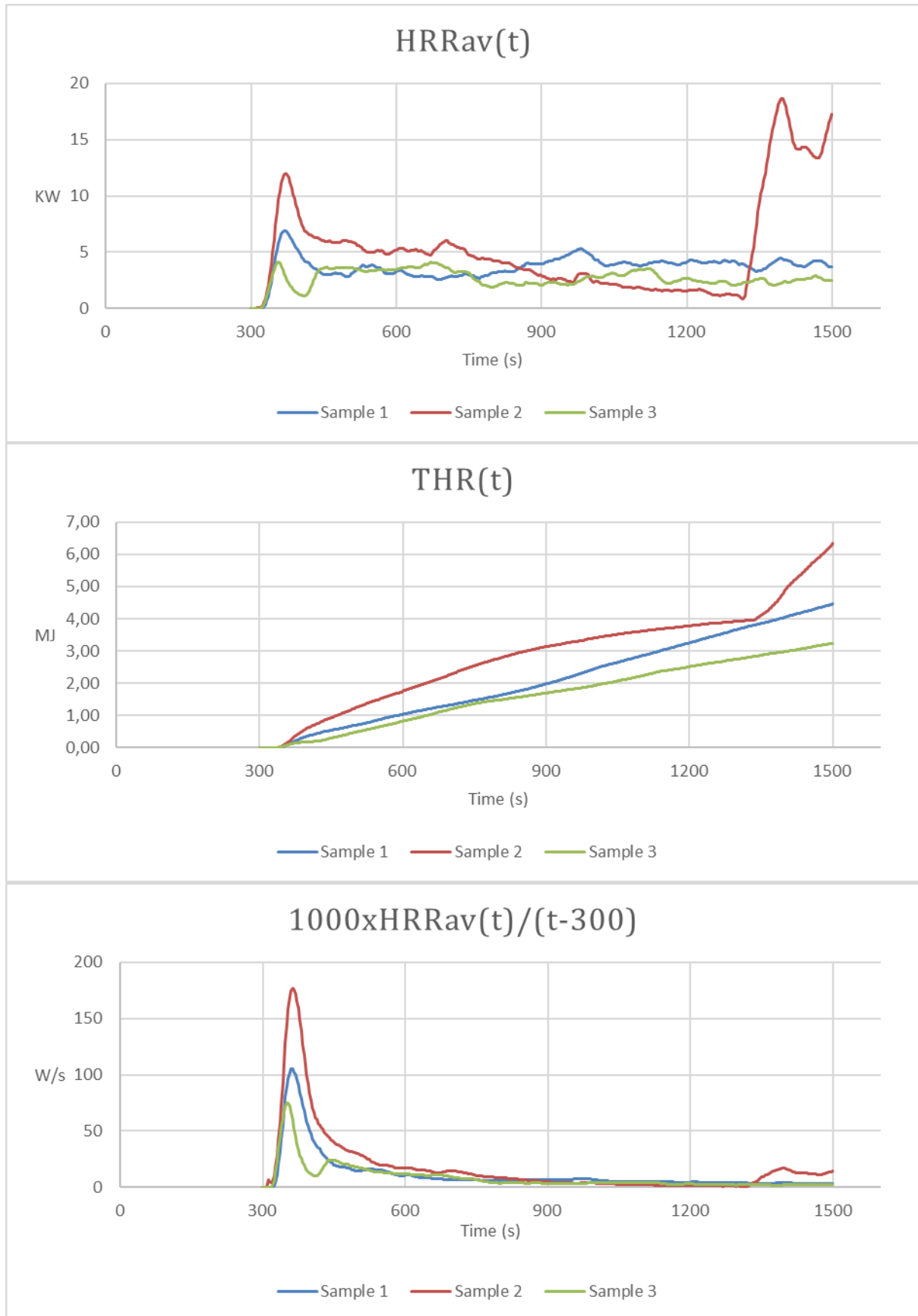
Appendix No. 2: The graphs of the measured and calculated values

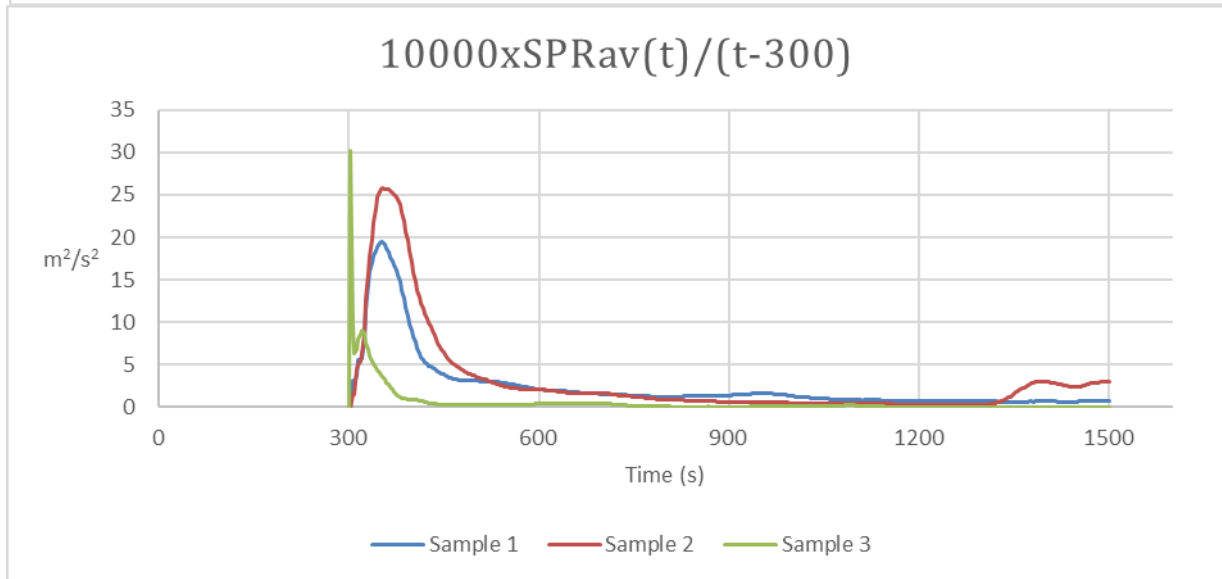
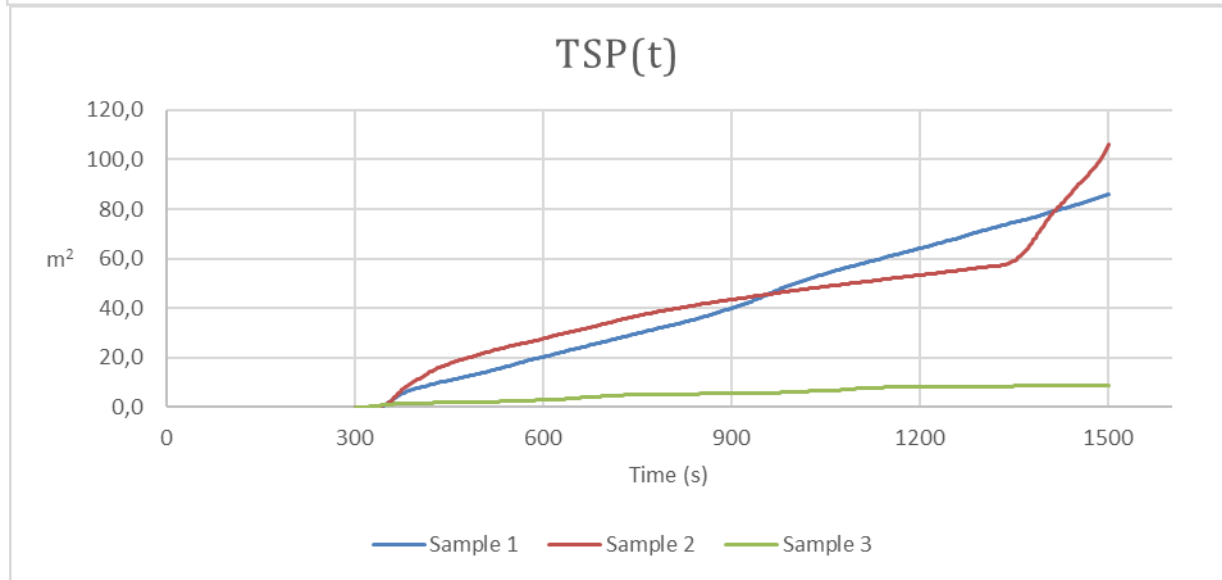
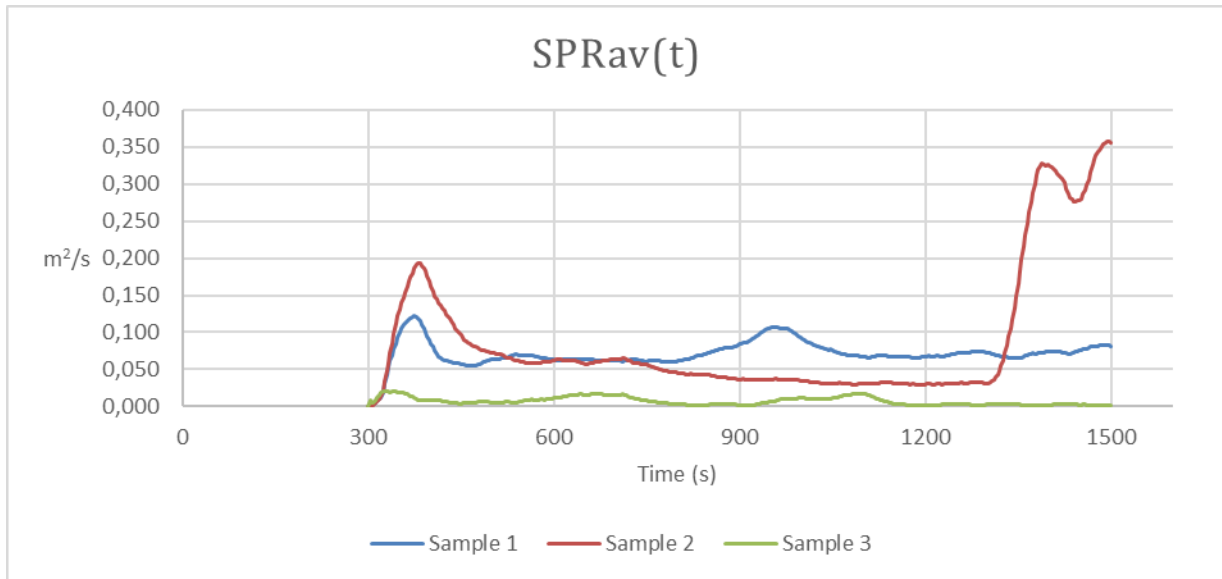
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The photograph of the exposed surface of long wing	The photograph of the exposed surface of short wing
	

The photograph of the exposed surface taken from the opposite of corner line






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EN 13501-1:2018

**Classification of Reaction to Fire
In Accordance With**

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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	(-)
	Flaming droplet(s)/particle (s)	3	None	None
EN ISO 11925-2 Flame application: 30 s	F _s ≤ 150 mm ⁽¹⁾	6	Yes	Yes
	Ignition of filter paper ⁽¹⁾	6	No	No
	F _s ≤ 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)
	TSP _{600 s} (m ²)	29,7	≤ 50 (s1)
	Flaming droplets/particles (s)	None	None (d0)
EN ISO 11925-2	F _s ≤ 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

ACOUSTIC
FELT



FeltVibe®

TS EN ISO 11925-2:2020

**According to the EN 13238:2010,
Article 4.3.c, $(23 \pm 2)^\circ\text{C}$ and % (50 ± 5)
relative humidity**

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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



AB-0556-T

FTST231294

12-23

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

İstek numarası : EEA-23-001123
Order No.

Numunenin adı ve tarifi : AK 1100 - 9 mm
Name and identity of test sample

Numunenin kabul tarihi : 08.11.2023
The date of receipt of sample

Açıklamalar :
Remarks

Deneyin yapıldığı tarih : 07.12.2023
Date of test

Raporun sayfa sayısı : 3
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.

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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



26.12.2023

e-imzalı
Uğur ÇAVAŞ

e-imzalı
Ali BAYRAKTAR

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Phone: +902626581662

Fax.: +902626581669

E-mail: turkiye@efectis.com

WEB: www.efectis.com



TEST REPORT

on Fire and Technical Characteristics

Ref. No.: EEA-23-001123

Sponsor: GENTUĞ TEKSTİL ÜRÜNLERİ SAN. VE TİC. A.Ş.

Keresteciler Sitesi Savaş Cad. Söğüt Sk. No:1 Güngören, İstanbul / TÜRKİYE

TEST ITEM

Product name: AK 1100 - 9 mm

Manufacturing Plant: GENTUĞ TEKSTİL ÜRÜNLERİ SAN. VE TİC. A.Ş.

Birinci Organize San. Böl. İstiklal Mah. No:1, Beyköy, Düzce / TÜRKİYE

Composition: Black coloured polyester based acoustic felt

Appearance: The mass per unit area of the black coloured acoustic felt was 1100 g/m² and the thickness was 9 mm.

Date of receipt of the sample: 08.11.2023 **Date of realization of tests:** 06.12.2023, 07.12.2023

Sampling: The samples were delivered by sponsor.

TEST METHOD: TS EN ISO 11925-2:2020

The flame application time: 30 s

Conditioning: According to the EN 13238:2010, Article 4.3.c, (23±2)°C and % (50±5) relative humidity.

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MEASURED VALUES AND THE TEST RESULTS						
SURFACE FLAME ATTACK	Lengthwise			Crosswise		
	1	2	3	1	2	3
Sample No.:	1	2	3	1	2	3
Ignition of the sample:	yes	yes	yes	yes	yes	yes
Reaching the mark:	no	no	no	no	no	no
Reaching the mark (s):	(-)	(-)	(-)	(-)	(-)	(-)
Ignition of the filter paper:	no	no	no	no	no	no
Observation during the test: No flaming droplets were observed.						

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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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



AB-0556-T

FTST231295

12-23

Müşterinin adı/adresi <i>Customer name/address</i>	: GENTUĞ TEKSTİL ÜRÜNLERİ SAN. VE TİC. A.Ş. Keresteciler Sitesi Savaş Cad. Söğüt Sk. No:1 Güngören, İstanbul / TÜRKİYE
İstek numarası <i>Order No.</i>	: EEA-23-001123
Numunenin adı ve tarifi <i>Name and identity of test sample</i>	: AK 1100 - 9 mm
Numunenin kabul tarihi <i>The date of receipt of sample</i>	: 08.11.2023
Açıklamalar <i>Remarks</i>	:
Deneyin yapıldığı tarih <i>Date of test</i>	: 07.12.2023
Raporun sayfa sayısı <i>Number of pages of the Report</i>	: 3

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Person in charge of test

Onaylayan
Approval



26.12.2023

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TEST REPORT

on Fire and Technical Characteristics

Ref. No.: EEA-23-001123

Sponsor: GENTUĞ TEKSTİL ÜRÜNLERİ SAN. VE TİC. A.Ş.

Keresteciler Sitesi Savaş Cad. Söğüt Sk. No:1 Güngören, İstanbul / TÜRKİYE

TEST ITEM

Product name: AK 1100 - 9 mm

Manufacturing Plant: GENTUĞ TEKSTİL ÜRÜNLERİ SAN. VE TİC. A.Ş.

Birinci Organize San. Böl. İstiklal Mah. No:1, Beyköy, Düzce / TÜRKİYE

Composition: Black coloured polyester based acoustic felt

Appearance: The mass per unit area of the black coloured acoustic felt was 1100 g/m² and the thickness was 9 mm.

Date of receipt of the sample: 08.11.2023 **Date of realization of tests:** 06.12.2023, 07.12.2023

Sampling: The samples were delivered by sponsor.

TEST METHOD: TS EN ISO 11925-2:2020

The flame application time: 30 s

Conditioning: According to the EN 13238:2010, Article 4.3.c, (23±2)°C and % (50±5) relative humidity.

Bu rapor, laboratuvarın yazılı izni olmadan kısmen kopyalanıp çoğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir.

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MEASURED VALUES AND THE TEST RESULTS						
EDGE FLAME ATTACK	Lengthwise			Crosswise		
Sample No.:	1	2	3	1	2	3
Ignition of the sample:	yes	yes	yes	yes	yes	yes
Reaching the mark:	no	no	no	no	no	no
Reaching the mark (s):	(-)	(-)	(-)	(-)	(-)	(-)
Ignition of the filter paper:	no	no	no	no	no	no
Observation during the test: No flaming droplets were observed.						

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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