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TSE DENEY ve KALİBRASYON MERKEZİ BAŞKANLIĞI

Elektroteknik ve Kimya Laboratuvarları Grup Başkanlığı

Ege Bölge Laboratuvarları Müdürlüğü

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HEADSHIP OF TSE TEST and CALIBRATION CENTER

AEGEAN REGIONAL LABORATORIES (İZMİR)

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AB-0001-T

314192

09-16

MUAYENE VE DENEY RAPORU TEST REPORT

Deneysel Talep Eden

: EA MİMARLIK İNŞ. TEKNOLOJİLERİ SAN.VE TİC.LTD.ŞTİ.

(Adı,Adresi,Şehir vb.)

Customer (Name,Address, City etc.)

YENİKALE MAHALLESİ MUSTAFA KEMAL SAHİLBULV.N:338/2 H.AŞIK APT.
Narlidere-İZMİR

Deneysel Talep Tarihi/No

: 23.08.2016 / 160185

Order Date / No

Numunenin Tanımı

: ZEMİN YALITIM ŞİLTESİ, PANETTİ , PNF , - , - , 1.00 adet

(Cins, Marka, Tip, Tür, Model vb.)

Sample Description (Type,Mark,Model etc.)

Sound and Heat Insulation Product,PANETTİ,PNF series,,1,00 item

Numune Kabul Tarihi

: 23.08.2016

Test Item Receipt Date

Deneyslerin Yapıldığı Tarih

: 23.08.2016 - 29.09.2016

Date of Test

Uygulanan Standard / Metod

: TS EN ISO 11925-2 :2011-04 Yangın deneylerine reaksiyon - Alev doğrudan maruz kalan ürünlerin tutuşabilirliği - Bölüm 2: Tek alev kaynağıyla deney (ISO 11925-2:2010)
Applied Standard/Method
TS EN ISO 11925-2 :2011-04 Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test

Raporun Sayfa Sayısı

: 2

Number of pages of the report

Açıklamalar

:

Remarks

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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.

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Deneysel Sorumlusu
Person in charge of tests

Önder Volkan BALCI
Kıdemli Tekniker

Kontrol Eden
Reviewer

Figen YAŞAR
Baş Mühendis

Onaylayan
Approved by

Şahap Gürler PAŞA
Laboratuvar Müdürü

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

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TS EN ISO 11925-2 : 2010 - April /Nisan 2011

Reaction to fire tests - ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test

Yapı Malzemeleri – Yangın Dayanımı Deneyleri – Alev Doğrudan Maruz Kaldığında Tutuşabilirlik – Bölüm 2: Tek Alev Kaynağıyla Deney

Testing Laboratory/Laboratories:

Headship of TSE Testing and Calibration Center
Headship of Electrotechnical and Chemical Group
Directorate of Aegean Regional Laboratories
Ex Laboratory Technical Supervisor

Address(es) : 8780 /1 Sokak No:5 Çiğli / İZMİR

Test Results:

- Test was not requested. (NR)
- Test can not be used on sample. (NU)
- Test can not be done with laboratory facilities. (X)
- Test was not evaluated due to lack of declaration/conditions. (NE)
- Test could not be done due to equipment failure. (EF)
- "Appropriate" according to specified conditions (A)
- "Not Appropriate" according to specified conditions (NA)

General Remarks :

- This report is organized in three copies.
- This report cannot be reproduced without permission of TSE.
- This report is only valid for the tested sample/samples.
- "See remark" refers to a remark appended to the report.
- "See appended table" refers to a table appended to the report.
- Throughout this report, a comma is used as the decimal separator.
- All pages of this report is signed and stamped with a blue department seal by authorized test performer.

COMPANY NAME : EA MİMARLIK İNŞAAT TEK. SAN. TİC. LTD. ŞTİ.

COMPANY ADDRESS : İZMİR

COMPANY STATEMENTS / SAMPLE DEFINITION : PANETTITI PNF series Sound and Heat Insulation Product
(Polyethylene-based foam insulation board)

Related Product Standard and citations: Reaction to Fire Test (EN 13501-1)

Conditioning Details: Test specimens conditioned at 23±2°C and 50±5% relative humidity according to the EN 13238 clause 4.3.c. (TS EN ISO 11925-2 Clause 6.)

(TS EN 13501-1 Clause 8.)	The test sample is subjected to the tests for determine the suitability, 30 sec exposure (60 sec duration of the test) according to the TS EN ISO 11925-2.
Test Sample (TS EN ISO 11925-2 Clause 5)	Length: 250mm, Width: 90mm Thickness 10mm
Exposure Conditions (TS EN ISO 11925-2 Clause 7.3.3)	The test sample was exposed to the flame(application time is 30 s) from the surface.

Test Results (TS EN ISO 11925-2 Clause 8.)

Number of samples	1	2	3	4	5	6
Combustion (Yes/No)						
Surface	Yes	Yes	Yes	Yes	Yes	Yes
Edge						
Flame spread to 150 mm (Yes/No)	No	No	No	No	No	No
150mm Flame Spread Time(T150) Test Duration $F_s \leq 150$ mm -Passed Test Duration $F_s \geq 150$ mm - Failed	-	-	-	-	-	-
Combustion filter paper (Yes/No)	No	No	No	No	No	No
CONCLUSION	A	A	A	A	A	A

Observations Combustion did not occur on the samples. Flame did not reach 150mm line measuring in the test period.
Dripping did not occur, melting and combustion did not occur, combustion on filter paper did not occur.

RESULT: Test sample/samples tested according to TS EN ISO 11925-2 :2010 / April 2011 Turkish Standard.

"This test result relates to the behavior of the test sample is applied under special conditions. This test result is not the only relevant criterion for the product's evaluation of a potential fire hazard."





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AB-0001-T

314190

09-16

MUAYENE VE DENEY RAPORU
TEST REPORT

Deneysel Talep Eden (Adı, Adresi, Şehir vb.)	:	EA MİMARLIK İNŞ. TEKNOLOJİLERİ SAN.VE TİC.LTD.ŞTİ.
Customer (Name, Address, City etc.)	:	YENİKALE MAHALLESİ MUSTAFA KEMAL SAHİLN BULV.N:338/2 H.AŞIK APT. Narlıdere-İZMİR
Deneysel Talep Tarihi/No Order Date / No	:	23.08.2016 / 160185
Numunenin Tanımı (Cins, Marka, Tip, Tür, Model vb.)	:	ZEMİN YALITIM ŞİLTESİ, PANETTİ, PNF, -, -, 1.00 adet
Sample Description (Type, Mark, Model etc.)	:	Sound and Heat Insulation Product, PANETTİ, PNF series, 1.00 item
Numune Kabul Tarihi Test Item Receipt Date	:	23.08.2016
Deneysel Yapıldığı Tarih Date of Test	:	23.08.2016 - 29.09.2016
Uygulanan Standard / Metod Applied Standard/Method	:	TS EN ISO 9239-1:2010 :2011-01 Döşemelerin yangına tepki deneyleri – Bölüm 1: Yanma davranışının radyan ısı kaynağı kullanılarak tayini TS EN ISO 9239-1:2010 :2011-01 Reaction to fire tests for floorings - Part 1: Determination of the burning behaviour using a radiant heat source
Raporun Sayfa Sayısı Number of pages of the report	:	5
Açıklamalar Remarks	:	

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Mühür
Seal

Tarih
Date

Deneysel Sorumlusu
Person in charge of tests

Onder Volkan BALCI
Kıdemli Tekniker

Kontrol Eden
Reviewer

Figen YAŞAR
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TS EN 9239-1 : JANUARY 2011 FLOORING REACTION TO FIRE TESTS – PART 1: DETERMINATION OF THE FIRE BEHAVIOR WITH USING THE RADIANT HEAT SOURCE	
Testing Laboratory/Laboratories: Headship of TSE Testing and Calibration Center Headship of Electrotechnical and Chemical Group Directorate of Aegean Regional Laboratories Ex Laboratory Technical Supervisor	Address(es) : 8780 /1 Sokak No:5 Çiğli / İZMİR
Test Results: <ul style="list-style-type: none">• Test was not requested. (NR)• Test can not be used on sample. (NU)• Test can not be done with laboratory facilities. (X)• Test was not evaluated due to lack of declaration/conditions. (NE)• Test could not be done due to equipment failure. (EF)• "Appropriate" according to specified conditions (A)• "Not Appropriate" according to specified conditions (NA)	
General Remarks : <ul style="list-style-type: none">• This report is organized in three copies.• This report cannot be reproduced without permission of TSE.• This report is only valid for the tested sample/samples.• "See remark" refers to a remark appended to the report.• "See appended table" refers to a table appended to the report.• Throughout this report, a comma is used as the decimal separator.• All pages of this report is signed and stamped with a blue department seal by authorized test performer.	
COMPANY NAME : EA MİMARLIK İNŞAAT TEK. SAN. TİC. LTD. ŞTİ.	
COMPANY ADDRESS : İZMİR	
COMPANY STATEMENTS / SAMPLE DEFINITION : PANETTTI PNF series Sound and Heat Insulation Product (Polyethylene-based foam insulation board)	





1. – DESCRIPTION OF TEST METHOD

TS EN 9239-1 : JANUARY 2011 FLOORING REACTION TO FIRE TESTS – PART 1: DETERMINATION OF THE FIRE BEHAVIOR WITH USING THE RADIANT HEAT SOURCE

There is given the test methods for measure data basis for determine flooring behavior when expose to fire. Radiant flux is applied, conditions for flame propagation against the wind, an adjacent room or compartment during the initial phase of a developing fire, the upper surface is heated by flames or hot gases, or both acting on a hallway floor of the thermal radiation levels likely will simulate.

2.- SAMPLE DESCRIPTION

Arrival Date of the sample: 23.09.2016

Sample Description : PANETTI PNF series Sound and Heat Insulation Product

Name of the firm producing the sample : EA MİMARLIK İNŞAAT TEK. SAN. TİC. LTD. ŞTİ.

Production of the sample / Date of receipt of : --

Test Requesting Company Name : EA MİMARLIK İNŞAAT TEK. SAN. TİC. LTD. ŞTİ.

Trademark of the sample: --

Company Statements:

The sample:	Nominal Values (*)	Measured Values (**)
Thickness (mm)		10mm
Mass per unit area (g/m ²)		850 g/m ²
Density (kg/m ³)		-

(*)The company declared values

(**)Confirmed by laboratory values





3. - RESULTS AND OBSERVATIONS

Conditioning:

- TS EN 13238 January 2010 Part 4.3. C. Conditioning: at least 2 weeks, (23 ± 2) °C and % (50 ± 5) relative humidity.

Conditioning the beginning: 23.08.2016

The end of conditioning : 28.09.2016

Support Layer and Fixing: 10mm thickness test sample fixed on 12mm thickness and 800kg/m³ density calcium silicate boards with steel frame.

Dimensions : 1040mm x 230mm x 10mm

Pilot burner : Propane

Relative Humidity : 50 %

Temperature : 25°C

Test No.	1	2	3	
Date of test	28.09.2016	28.09.2016	28.09.2016	
Combustion time(s.)	2dk	2dk	2dk	
Burn out time (s.)	10dk	10dk	10dk	
Flame spread distance (mm)	<260mm	<280mm	<300mm	
CHF (kW/m ²)	<8,4 kW/m ²	<8,0 kW/m ²	<7,8 kW/m ²	
HF 10 (kW/m ²)	<8,4 kW/m ²	<8,0 kW/m ²	<7,8 kW/m ²	
HF 20 (kW/m ²)	<8,4 kW/m ²	<8,0 kW/m ²	<7,8 kW/m ²	
HF 30 (kW/m ²)	<8,4 kW/m ²	<8,0 kW/m ²	<7,8 kW/m ²	
TSP (%/min.)	155	210	240	
Observations	*1 After pre-heating time was 2min, ignition occurred with the pilot burner. *210th minute went out with the withdrawal of the pilot .			

(Bfl :Critical flux > 8,0 kW/m² , Cfl :Critical flux > 4,5 kW/m² , Dfl :Critical flux > 3,0 kW/m² , s1 = Smoke < 750 % minutes; s2 = not s1.)





Summary of test results:

As a result of this test, testing under the special conditions is about the behavior of the test sample, a finished product that is being used for the evaluation of the potential fire risk is not intended to be the only criteria. This test results are valid for tested sample.

HF-X (kW/m ²)	
HF 10	8,1 kW/m ²
HF 20	8,1 kW/m ²
HF 30	8,1kW/m ²

CHF (kW/m ²)	
1.	8,1 kW/m ²
2.	8,1 kW/m ²
3.	8,1 kW/m ²
4.	-
AVERAGE	8,1 kW/m ²

RESULT :

EA MİMARLIK İNŞAAT TEK. SAN. TİC. LTD. ŞTİ. company that has produced **PANETTTI PNF series Sound and Heat Insulation Product (Polyethylene-based foam insulation board)** samples are tested according to TS EN 9239-1 January 2011 Turkish Standard.

Test results given in this test report and TS EN ISO 11925-2 topical 09.2016/614192 numbered test report **COMPLY** with **Bfi S1** class criteria according to Table-2 TS EN 13501-1 April 2013.

