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**Applicant:****EDOFLEKS DÖŞEMELERİ TİC. VE SAN. A.Ş.****Applicant Address:**Küçükbakkalköy Mah. Dereboyu Cad. No:3/A Brandium Ofis R 5 Blok Kat. 14D  
Ataşehir/İstanbul TURKEY**Contact Person:**

AYHAN ERDOĞAN

**Contact Telephone:**

+90 216 510 81 01

**Contact e-mail:**[ayhan@edofleks.com](mailto:ayhan@edofleks.com)**Sample Accepted on:**

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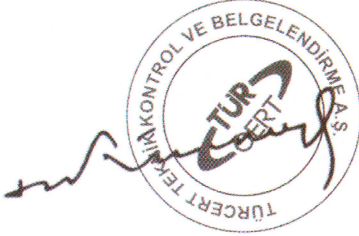
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Sample ID :

COMMERCIAL VINYL WALLCOVERINGS

	TEST	METHOD	RESULT
*	FIRE RETARDANT TEST	ISO 13501-1	B-S2,d0



Seal

Customer Representative  
Hasan KUTLULaboratory Manager  
Hava Sarıaydın

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**ENVIRONMENT**

The requirements and standards apply to equipment intended for use in

<b>X</b>	Residential (domestic) environment
<b>X</b>	Commercial and light-industrial environment
<b>X</b>	Industrial environment
<b>X</b>	Medical environment



## RESULTS

**1.TS EN ISO 13501-1**

Building products and structural elements, fire classification. Part 1: Classification by using data obtained from the behavior tests against fire.

This standard covers the behavior of all building products, including products used in combination with structural elements, against flame.

Provisions for Inspection and Test:

If Rule / Test Is Not Needed To Be Applied To Sample (Not Applicable To Sample) NU  
If the Specimen Fits the Rules (Passed) P  
If the Specimen Tested Does Not Comply with the Rules (Left) K  
If there is a Rule / Experiment Not Applied for Any Reason (Unable) Y

Sample No	1	2	3	4	5	6
Fammability (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes
Whether the flame is spread (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes
Flame Spreading Time	-	-	-	-	-	-
Combustion on Filter Paper (Yes/No)	No	No	No	No	No	No
Result	P	P	P	P	P	P
<b>Observations</b> Samples had an ignition. The flame did not reach the measurement line within the experimental period. No dripping, melting and burning, filter paper did not burn.						

<b>Related Product Standard and Citations:</b> Fire Response Test (EN 13501-1 B Class)	
<b>Conditioning Details:</b> The test samples were conditioned at $23 \pm 2$ ° C and $50 \pm 5\%$ relative humidity at EN 13238 according to 4.3 C.	
Class B (TS EN 13501-1 Madde 8.3)	A product for detecting conformity to Class B according to TS EN ISO 13501-1
Test Sample	Length 2000mm , Width mm , Thickness — mm
Exposure Requirements	Surface exposed to flame

**RESULT:** Tests and tests were carried out according to the European Standard TS EN ISO 13501-1. The product has passed the test successfully.

*“The result of this experiment is related to the behavior of the test specimen of a product under the special conditions in which the test is applied; Not a single criterion for assessing the potential fire hazard of a product under actual use.”*



**Reaction to fire**

The combustion class of the product (Euroclasses) must be determined according to EN 13501-1.

**TS EN 13501-1 –Flammibility Test (TS EN ISO 1182)**

This test is applied to determine whether a contribution to a fire will be significant regardless of the end use of a product.  
This test is related to Class B.

Material	Rule / Test	Result / Evaluation		Decision
5	<b>Test Sample</b>			
	The specimen should be cylindrical, the volume of each specimen should be (76 ± 8) cm <sup>3</sup> , diameter (45 (+ 0 / -2) mm) and height (50 ± 3) mm.	45 mm in diameter and 50 mm in height. (76 cm <sup>3</sup> )		PASS
6	<b>Conditioning</b>			
	Test samples shall be conditioned as specified in EN 13238. The test samples should be dried and tested for 20 hours to 24 hours in an air-circulating oven with a temperature of (60 ± 5) ° C. it must be allowed to cool to ambient temperature in a desiccator before being held. The mass of each sample should be determined with a sensitivity of 0.01 g before the experiment.	Conditioning Time: 1 week Conditioning Temperature: 23 ± 2 ° C Conditioning Humidity: 50 ± 5% <i>EN 13238 4.3 Conditioning for fixed period</i> a) Minimum conditioning period of one weeks: 2) cement based products;		PASS
8	<b>Display of results</b>			
	The mass loss measured mass loss is calculated and recorded in% for each of the five test samples.			
8.1	Flammability The total measured time of continuous exacerbation is calculated and saved in seconds for each of the five test samples - The temperature increase recorded with the temperature increase thermocouple, $\Delta t = T_m - T_f$ , is calculated and recorded for each of the five test samples.	1. TEST	<b>2.13 MJ/kg</b> TS EN ISO 11925-2	PASS
8.2	Note 1: TS EN 13501 -1 Class B Products with homogenous and non-homogeneous products must meet the criteria for $\Delta t \leq 30$ ° C and $\Delta m \leq 50\%$ and $t_f = 0s$ .	2. TEST	<b>2.14 MJ/kg</b> TS EN ISO 11925-2	
8.3	Note 2: TS EN 13501-1 Class B Homogeneous and non-homogeneous products must meet the $1t \leq 50$ ° C and $\Delta m \leq 50\%$ and $t_f \leq 20s$ criteria.  <i>Note 3: TS EN 13501-1 Class B Homogeneous products shall meet the PCS Hom 2.0 MJ / kg criteria.</i>	3. TEST	<b>2.13 MJ/kg</b> TS EN ISO 11925-2	



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Classification of COMMERCIAL VINYL WALLCOVERINGS according to TS EN 13501-1 according to fire behavior:

**B**

Test method	Parameter	Number of tests	Mean of continuous parameter	Results Suitable parameter
TS EN 13823	FIGRA <sub>0,2MJ</sub> (W/s)	3	51,5	(-)
	LFS > kenar	3	(-)	No
	THR <sub>600s</sub> (MJ)	3	3,2	(-)
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )	3	85,0	(-)
	TSP <sub>600s</sub> (m)	3	103,7	(-)
	Drops and droplets (s)	3	(-)	No

(-): not applicable

(1): Exposing the surface to flame

(2): Exposing the edge to the flame (TS EN 14509:2014 standard material C.1.2.2.a)

Test method	Parameter	Parameter	Compliance criteria
TS EN 13823	FIGRA <sub>p 2 MJ</sub> [W/s]	51,5	< 120 (B)
	THR <sub>600s</sub> (MJ)	3,2	<7,5(B)
	LFS < kenar	(-)	Evet(B)
	SMOGRA [m <sup>2</sup> /s <sup>2</sup> ]	85,0	<180 (s2)
	TSP <sub>600s</sub> [m ]	103,7	<200 (s2)
	burning drops / particles burning time (s)	No	No (d0)

(-):Not applicable

COMMERCIAL VINYL WALLCOVERINGS classification according to the behavior against fire:

**B**

Additional classification of smoke formation:

**S2**

Additional classification for burning drops / beads:

**d0**

**Reaction to fire for COMMERCIAL VINYL WALLCOVERINGS**

Burning behavior		Create smoke			Burning Drops	
B	-	s	2	†	d	0

\*\*\*END OF THE TEST\*\*\*



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Merkez Mh, Gençosman Cd, No 11 / A GÜNGÖREN / İSTANBUL

Tel: 0212 702 20 10 Fax: 0212 909 21 10

Web: www.laboratuvar.com E-mail: info@laboratuvar.com