TEST REPORT

TR12323498	
27.01.2023	

EUROLAB LABORATUVAR A.Ş.

EUROLAB® Inspection & Testing Laboratory

Test Result : **B,s2,d0**

Report No/ Rapor No :	2023012708
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Sample ID :	**GF/E 400- GF/E 247**

	TEST	METHOD	RESULT		
*	**Fire classification of construction products and building elements-Part 1: Classification using test data from reaction to fire tests.**	**EN 13501-1**	**PASS**		
			B	**s2**	**d0**

NOTE: This test result replaces the conformity assessment, can be presented to official institutions, and used in products and brochures.

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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	
Flammability (Yes/No)	No	No	No	
Whether the flame is spread (Yes/No)	No	No	No	
Flame Spreading Time	9 sec	9 sec	9 sec	
Combustion on Filter Paper (Yes/No)	No	No	No	

Related Product Standard and Citations: Fire Response Test (EN 13501-1 B Class)	
Conditioning Details: The test samples were conditioned at 23 ± 2 ° C and 50 ± 5% relative humidity at EN 13238 according to 4.3 C..	
Class B (TS EN ISO 13501-1 Clause 8.3)	For the determination of conformity to Class *B*, use a product, the time of exposure to flame according to TS EN 13501-1
Test Sample	Length -- mm , 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. "

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Reaction to fire

The combustion class (Euroclasses) of the product must be determined in accordance with EN 13501-1.

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

This test is carried out to determine whether a contribution to a fire is significant, regardless of the end use of a product.

Material	Rule / Test	Result / Evalution		Decision
5	**Test sample**			
	----	---		**PASS**
6	**Conditioning**			
	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% *EN 13238 4.3 Conditioning for fixed period a) Minimum conditioning period of one weeks: 2) cement based products;*		**PASS**
8 **8.1** **8.2** **8.3**	**Display of results** The mass loss measured mass loss is calculated and recorded in% for each of the three test samples. Flammability The measured total time of continuous exacerbation is calculated and recorded in seconds for each of the three test samples. Note 1: TS EN 13501 -1 Class A_{fl} Homogeneous and non-homogeneous products must meet the 1t ≤ 30 ° C and ,m ve 50% and tf = 0s criteria. Note 2: TS EN 13501-1 Class A_{fl} Homogeneous and non-homogeneous products must meet the Δt ≤ 50 ° C and Δm olmayan 50% and tf Sınıf 20s criteria. Note 3: TS EN 13501-1 Class A_{fl} Homogen products shall meet the PCS ojen 2.0 MJ / kg criteria.	1. test	**2.12 MJ/kg** **TS EN ISO 11925-2**	**N/A**
		2. test	**2.13 MJ/kg** **TS EN ISO 11925-2**	
		3. test	**2.14 MJ/kg** **TS EN ISO 11925-2**	

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Classification of according to TS EN 13501-1 according to the behavior against fire:

B

Test method	Parameter	Number of tests	Mean of continuous parameter	Results Suitable parameter
TS EN 13823	FIGRA0,$_{4MJ}$ (W/s) LFS < side THR$_{600s}$(MJ)	3 3 3	114 (-) 6,3	≤120 No ≤7,5
	SMOGRA (m^2/s^2) TSP$_6$00s (m^2)	3 3	160 181	≤180 ≤200
	Drops and droplets (s)	3	(-)	No

Test method	Parameter	Parameter	Compliance criteria
TS EN 13823	FIGRA$_{0.2\ MJ}$ [W/s]	114	≤120 (B)
	THR$_{600s}$ (MJ)	6,3	≤7,5 (B)
	LFS < side	(-)	No
	SMOGRA [m^2/s^2]	160	≤180(s2)
	TSP$_{600s}$ [m^2]	181	≤200 (s2)
	burning drops / particles burning time (s)	No	No (d0)

Classification of based on fire behavior:**B**

Additional classification for smoke formation:**S2**

Additional classification for burning drops / beads:**d0**

Reaction to fire for

Flammability Behavior		Smoke			Burning Drops	
B	-	s	2	-	d	0

*****End Of Report*****

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