

## Test Report

No. AJFS1908007895FF

Date: AUG.26, 2019

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Palziv

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The following sample(s) was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion. results apply to the sample as received.

**Sample Description:** GA25FHZ

**Color:** BLACK-GREY

**Density:** 25 Kg/m<sup>3</sup>

**Thickness:** 20mm

**Composition:** XLPE FOAM

**Supplier:** Palziv

**Buyer:** Several

**Manufacturer:** Palziv

**Country of Destination:** EU

**End Use Application:** HVAC INSULATION

**Style/Item No.:** /

### **Test Requested:**

NF P 92-507:2004 Fire safety-building-interior fitting materials-Classification according to their reaction to fire

**Test Results:** -- See attached sheet --

### **Conclusion:**

**Classification: M1**

Note: The classes with their corresponding fire performance are given in Annex I.

### **Test Period:**

Sample Receiving Date : AUG.14, 2019

Test Performing Date : AUG.14, 2019 TO AUG.20, 2019

Signed for and on behalf of  
SGS-CSTC Co., Ltd. Anji Branch



Allen Zou  
Lab Manager



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**I. Test conducted**

This test was conducted according to NF P 92-507:2004 Fire safety-building-interior fitting materials - Classification according to their reaction, and the test methods as following:

NF P 92-501:1995 Safety against fire - Building materials - Reaction to fire tests - Radiation test used for rigid materials, or for materials on rigid substrates (flooring and finishes) of all thicknesses, and for flexible materials thicker than 5 mm

**II. Sample details**

Sample description	Stainless steel + Foam
Color	Silver + Grey
Thickness	22mm
Specimen size	Length 400mm; Width 300mm
Exposed surface	Stainless steel surface

**III. Conditioning**

Prior to testing, the sample was conditioned,

In an atmosphere having a temperature of 23±2°C and a relative humidity of 50±5% for 7 days or until constant mass is obtained. The mass is considered as constant when two successive weightings 24 hours apart do not differ by more than 0.1% or 0.1 g (take the highest mass value).

To be continued...



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**IV. Test results**

NF P 92-501:1995 Test by Radiation

	1	2	3	4	AVE
Time of ignited exposed face (ti1) (seconds)	DNI	DNI	DNI	DNI	
Time of ignited unexposed face (ti2) (seconds)	DNI	DNI	DNI	DNI	
Sum of the height of the flame $\sum h$ (cm)	0	0	0	0	
Sum of the duration of flaming combustion, $\Delta T$	0	0	0	0	
$q = \frac{100 \sum h}{t_i \sqrt{\Delta T}}$	0	0	0	0	0
Flaming molten droplets (Yes/No)	No	No	No	No	
Non-flaming molten droplets (Yes/No)	No	No	No	No	

**Note:**

t1: Time for the test piece to ignite on exposed face after it has been placed in the cabinet;

t2: Time for the test piece to ignite on the unexposed face after it has been placed in the cabinet;

t: Time for the test piece to ignite after it has been placed in the cabinet;

$\sum h$ : Is the sum of the maximum height of the flames (h) reached in every 30 second period (in centimeters) during each test;

$\Delta T$ : The total duration of flaming combustion above the top of the radiator (it is calculated whether either one or both faces of the specimen flame);

q: Is the classification index obtained from the data derived from each test.

DNI: Do Not Ignite

To be continued....



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**Annex I, Classification**

Table 2 Resume of classification for the rigid materials and flexible materials which thickness more than 5mm

<b>Radiation Test</b> <sup>c)</sup>		Flame Spread		PCS	
Requirement		<2 mm/s	>2 mm/s	<2.5 MJ/kg	>2.5 MJ/kg
No Effective Inflammation	M0			M0 <sup>a)</sup>	M1
q<2.5 <sup>b)</sup>	M1				
q<15	M2				
q<50	M3				
q ≥50				M4	NC

<sup>a)</sup> For the classification M0 of multilayer materials and painted inert materials, refer to clause 3.3.2, 3.3.3, 3.3.4 and appendix C.

<sup>b)</sup> The meanings of the index q refer to clause 3.2.3.4 of NF P 92-507:2004.

<sup>c)</sup> If the materials presented a particular behaviour, the classification also needs to refer to Table 3.

**Table 3 Resume of classification for the materials presented a particular behaviour**

Test Items	Criteria of classification				
<u>Test for hot melt materials</u>		Not ignite the wadding	Not ignite the wadding	Ignite the wadding	Ignite the wadding
<u>Flame spread Test</u>	No drops	Non-flaming molten droplets	Flaming drops or debris	Non-flaming molten droplets	Flaming drops or debris
Afterflame time≤2s	M1	M1	M2	M4	M4
Afterflame time≤5s	M2	M2	M3	M4	M4
Afterflame time>5s and Flame Spread<2 mm/s	M3	M3	M4	M4	M4

To be continued....



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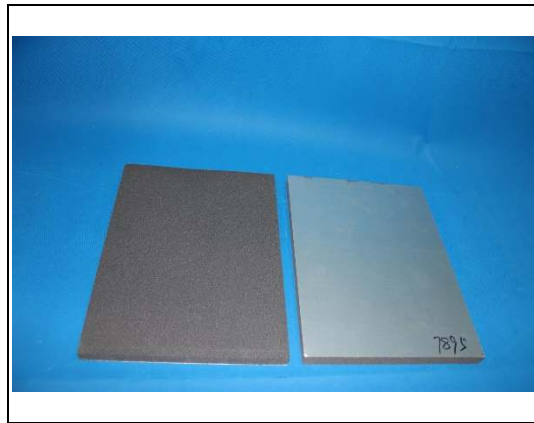
### STATEMENTS:

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

The test results relate to the behaviour of the test specimens 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 in use.

The test results relate only to the specimens of the product in the form in which were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product, which is supplied or used, is fully represented by the specimens, which were tested.

### Photo Appendix:



SGS authenticate the photo on original report only

\*\*\*End of Report\*\*\*