



## TEST REPORT

No. : GZMR120924407

Date : Oct. 31, 2012

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The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : WPC PROFILE  
Material : WOOD PLASTIC COMPOSITE  
Style/Item No. : 10MM  
Manufacturer :  
Sample Information : COLOR: BROWN; APPLICATION: DECKING; TILE; FENCE  
SGS Ref No. : GP120920571, SC121021359, CANML1213369801  
Test Performed : Selected test(s) as requested by applicant  
Date of Receipt : Oct. 08, 2012  
Test Period : Oct. 08, 2012 to Oct. 26, 2012

Test result(s) : Please refer to the following page(s)

\*\*\*\*\*To be continued\*\*\*\*\*

Signed for and on behalf of  
SGS-CSTC Ltd.

Michelle Xu  
Engineer

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## Test Summary:

The following tests have been requested, also according to EN 14041-2004COR.2:2006, CE harmonized standard: Resilient, textile and laminate floor coverings — Essential Characteristics:

No.	Test item	Test method	Test result	Conclusion
1	Reaction to fire	EN 14041-2004COR.2: 2006 Clause 4.1	Class F <sub>fl</sub>	---
2	Content of pentachlorophenol (PCP)	EN 14041-2004COR.2: 2006 Clause 4.2	N.D.	Pass
3	Formaldehyde emission	EN 14041-2004COR.2: 2006 Clause 4.3	N.D. Class E1	---
4	Slip resistance	EN 14041-2004COR.2: 2006 Clause 4.5	Dynamic coefficient of friction: 0.34 Technical class DS	Pass
5	Thermal Conductivity	EN 14041-2004COR.2: 2006 Clause 4.7	0.198 W/(m.K)	---

Note: 1. Class F<sub>fl</sub> is claimed without further testing.

2. N. D. = Not Detected (< MDL)

3. The above result was the average value.

\*\*\*\*\* To be continued \*\*\*\*\*

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## Test Information:

Sample description: Board (see photo)

### 1. Reaction to fire

#### Test Method:

EN 14041-2004COR.2:2006 Clause 4.1

When declared, the floor covering shall be tested and classified according to the requirements of EN 13501-1:2007+A1:2009 and resulting class and subclass shall be declared.

If it is decided to make no claim of reaction for fire performance, which marked class F<sub>fl</sub>, no testing is required

#### Test Result:

Reaction to fire class: F<sub>fl</sub>

This reaction to fire class F<sub>fl</sub> is claimed without further testing.

### 2. Content of pentachlorophenol (PCP)

#### Test Method:

EN 14041-2004COR.2:2006 Clause 4.2

#### Test Result:

Test Item	Unit	Result	MDL
Content of Pentachlorophenol	mg/kg	N.D.	1.0

Note:

1. 1 mg/kg = 1 ppm = 0.0001%
2. N.D. = Not Detected ( $\geq$  MDL)
3. MDL = Method Detection Limit

\*\*\*\*\* To be continued\*\*\*\*\*

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### Standard's Requirement:

Resilient, textile and laminate floor coverings shall not contain PCP or a derivative thereof as a component in the production process of the product or of its raw materials. In cases where verification is required, if the content is less than 5ppm in the parts of the product affected by treatment, this requirement shall be considered to be met.

### Conclusion: Pass

### 3. Formaldehyde emission (In air)

#### Test Method:

EN 14041-2004/COR.2:2006 Clause 4.3 and EN 717-1:2004

When formaldehyde-containing materials have been added to the product as a part of the production process, the product shall be tested and classified into one of two classes: E1 or E2.

Formaldehyde class E1:  $\leq 0.124 \text{ mg/m}^3$  air

Formaldehyde class E2:  $> 0.124 \text{ mg/m}^3$  air

#### Test Result:

Test Item(s)	Unit	Result	MDL	Classification
Formaldehyde emission (In air)	$\text{mg/m}^3$	N.D.	0.080	Class E1

Note:

1. N.D. = Not Detected ( $\leq$  MDL)
2. MDL = Method Detection Limit
3.  $\text{mg/m}^3$  = Milligram per cubic meter

\*\*\*\*\* To be continued\*\*\*\*\*

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## 4. Slip resistance

### Test Method:

EN 14041:2004COR.2:2006 Clause 4.5 and EN 13893:2002

The test was conducted in accordance with EN 13893:2002. Sliders made from the defined material and having a definite shape are loaded to impose a specified force on the floor covering. The loaded sliders are pulled parallel to the surface of floor covering at constant speed 0.2m/s to 0.3m/s. The horizontal force applied to pull the sliders is recorded over the length of a trace at least 0.30m. And the results were calculated by the formulae below:

$$\mu = F/M$$

F-- is the average horizontal force (in Newton).

M-- is the total vertical load on the sliders (in Newton).

### Test Condition:

Test speed: 0.26m/s

### Test Result:

Specimen No.	1	2	3	4	5
Specimen thickness (mm)	10.55	10.55	10.55	10.55	10.55
Dynamic coefficient of friction	0.34	0.34	0.34	0.34	0.34
Average dynamic coefficient of friction	0.34				
Classification of dynamic coefficient of friction	Technical class DS				

### Standard's Requirement:

When declared, the floor covering intended to be used in dry and non-contaminated conditions shall have a dynamic coefficient of friction of  $\geq 0.30$  when tested ex-factory under dry conditions per EN 13893:2002 and shall be declared as technical class DS.

### Conclusion: Pass

\*\*\*\*\*To be continued\*\*\*\*\*

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## 5. Thermal Conductivity

### Test Method:

EN 14041-2004COR.2:2006 Clause 4.7 and EN 12667:2001

### Test Condition:

Lab environmental condition: 23±2°C , 50±5%RH

Sample size: 300×285×11.2mm, jointed with four pieces

Mean temperature: 25.27°C

Temperature difference: 9.34°C

### Test Result: 0.198 W/(m·K)

Note: 1. The test result can not be compared with other results obtained from different test conditions, and should not be cited to the use condition directly.

2 The test item 5 was carried out by a SGS laboratory.

### Photo:



\*\*\*\*\*End of report\*\*\*\*\*

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