



TEST REPORT

Report No.: CTB190419012WX

Date: APR 17, 2019

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Customer: Guangdong Borige New Material Technology Co., Ltd.

Address: Dalingjiao Village, Waitang Village Committee, Xijiang Town, Lianzhou City,
Guangdong Province

Report Number : CTB190419012WX

Total Page: 6 Pages

Report on the submitted sample said to be:

Sample name: Artificial Marble

Model: 2700*1800

Trade name: /

Manufacture: Guangdong Borige New Material Technology Co., Ltd.

Address: Dalingjiao Village, Waitang Village Committee, Xijiang Town, Lianzhou City,
Guangdong Province

Sample received date: APR 06, 2019

Testing period: APR 06-16, 2019

Test (Issue) laboratory: Shenzhen CTB Testing Technology Co., Ltd.

Test location: F oor 1&2, Building A, No. 26 of Xinghe Road, Xinqiao Community, Xinqiao
Street, Baoan District, Shenzhen, Guangdong, China.l

Test Method: EN ISO 10545-2:2018, EN ISO 10545-3:2018, EN ISO 10545-4:2019, EN
15771:2010, EN ISO 10545-7:1998, EN ISO 10545-8:2014, EN ISO 10545-9:2013, EN ISO
10545-11:1996, EN ISO 10545-12:1997,EN ISO 10545-13:2016 .

Test Result: Please refer to next page(s) for details.

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of CTB

Tested by: Note Lu

Note Lu
(Engineer)

Approved by:



Simon Lee
(Supervisor)

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Testing:

Laboratory sample number.....: YP190406147

Sample appearance and function are in normal condition, yes or no.....: Yes

Ambient temperature.....: 24.9°C

Ambient humidity.....: 64.2%

Summary of testing:

The submitted sample were tested and found to compliance with requirements of the standards

General remarks:

The test results presented in this report relate only to the object tested.

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"(see Enclosure #)" refers to additional information appended to the report.


"(see appended table)" refers to a table appended to the report.

Throughout this report a comma / point is used as the decimal separator.

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Properties	Test Method	Requirements	Results	Verdicts
Requirements				
Dimensions and surface quality				
Length and Width				
The deviation, of the average size for each tile (2 or 4 sides) from the work size	EN ISO 10545-2:2018	±0.6%	-0.23%~-0.08 %	P
The deviation of the average size for each tile (2 or 4 sides)from the acerage size of the 10 test specimens (20 or 40 sides)	EN ISO 10545-2:2018	±0.5%	-0.08%~+0.06 %	P
Thickness				
The deviation of the average thickness of each tile from the work size thickness	EN ISO 10545-2:2018	±5%	+0.61%~+1.96 %	P
Straightness of sides				
The maximum deviation from straightness related to the corresponding work sizes	EN ISO 10545-2:2018	±0.5%	-0.02%~+0.04 %	P
Rectangularity				
The maximum deviation from Roctangularity relatcd to the corresponding work sizes	EN ISO 10545-2:2018	±0.6%	-0.10%~+0.10 %	P
Surface flatness:				
The maximum deviation from flatness				
a) centre curvature,related to diagonal calculated from the work size;	EN ISO 10545-2:2018	±0.5%	+0.11%~+0.16 %	P
b) edge curvature,related to the corresponding work sizes;	EN ISO 10545-2:2018	±0.5%	+0.05%~+0.08 %	P
c) warpage related to diagonal calculated from the work size	EN ISO 10545-2:2018	±0.5%	-0.07%~+0.07 %	P

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Properties	Test Method	Requirements	Results	Verdicts
Surface quality	EN ISO 10545-2:2018	A minimum of 95% of the tiles shall be free from visible defects that would impair the appearance of a major area of tiles	100%	P
Physical properties				
Water absorption,% by weight	EN ISO 10545-3:2018	Average $6 < E \leq 10$	8.2%	P
		Individual,max.11.0	7.4%~7.7%	P
Modulus of rupture,in N/mm²	EN ISO 10545-4:2019	Average ≥ 18	23.5	P
		Individual,min.16	17.9	P
Scratch hardness of surface (Mohs scale)	EN 15771:2010	Min.5	6	P
Physical properties				
Abrasion resistance Resistance to abrasion of Glazed tiles,abrasion class	EN ISO 10545-7:1998	According to the abrasion class indicated by the manufacturer	Class 2	-
Coefficient of linear thermal expansion: from ambient temperature to 100°C	EN ISO 10545-8:2014	Max. $9 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$	$6.3 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$	P
Thermal shock resistance	EN ISO 10545-9:2013	Required	Fully resistance	P
Crazing resistance: Glazed tiles	EN ISO 10545-11:1996	Required if agreed	Fully resistance	P
Frost resistance	EN ISO 10545-12:1997	Required	Fully resistance	P

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Properties	Test Method	Requirements	Results	Verdicts
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Chemical properties				
Resistance to staining of glazed tiles	EN ISO 10545-13:2016	Min.Class 2	Class I	P
Resistance to household chemicals and swimming-pool water cleansers (except to cleansing agents containing hydrofluric acid and its compounds)	EN ISO 10545-13:2016	Min.Class B	Class AA	P
Resistance to acids and alkalis (with the exception of hydrofluoric and its compounds)	EN ISO 10545-13:2016	Required if agreed according to the chemical resistance class indicated by the manufacturer	Class AA	-

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Photograph of sample:

Fig. 1

*****END OF REPORT*****

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