

National Research Center of Testing Techniques for Building Materials Test Report

No: **WT2020B01G01414**

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No.	Test Items		Requirements of Standard (Annex G, glazed tile)	Test Results	Individual Conclusion	Test methods
1	Water absorption	Average (%)	≤0.5	0.048	Pass	GB/T 3810.3-2016
		Single value (%)	≤0.6	0.0317~0.0618	Pass	
2	Breaking strength (N)		≥1300 (Thickness ≥7.5mm)	5318	Pass	GB/T 3810.4-2016
3	Modulus of rupture	Average (MPa)	—	56	—	
		Single value (MPa)	—	50.5~60.4	—	
4	Resistance to staining		Minimum Class 3	Class 5	Pass	GB/T 3810.14-2016
5	Frost resistance		No cracking, peeling or damage	No cracking, peeling and damage	Pass	GB/T 3810.12-2016
6	Coefficient of static friction (Dry)		Single value ≥0.50	Minimum value 0.60	Pass	GB/T 4100-2015 Annex M
7	Moisture expansion(mm/m)		—	0.035	—	GB/T 3810.10-2016
8	Abrasion resistance		—	Class 3/1500r	—	GB/T 3810.7-2016
9	Coefficient of linear thermal expansion(°C ⁻¹)		—	5.1×10 ⁻⁶	—	GB/T 3810.8-2016
10	Impact resistance		—	0.82	—	GB/T 3810.5-2016
11	Thermal shock resistance		—	No cracking and damage	—	GB/T 3810.9-2016
12	Mohs hardness		—	Class 7	—	JC/T 908-2013 (2017) Annex A

Remarks: 1. Test Site: GuanZhuang.

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13	Lead release	—	No detected	—	GB/T 3810.15-2016	
	Cadmium release	—	No detected	—		
14	Slip-resistance classification	R10 10°~ 19°	R10 12.8°	Pass	DIN 51130-2014	
15	Chemical resistance	100g/L NH ₄ Cl	Minimum GB	GA	Pass	GB/T 3810.13-2016
		20mg/L NaClO	Minimum GB	GA	Pass	
		3%(v/v) HCl	—	GLA	—	
		100g/L Citric acid	—	GLA	—	
		30g/L KOH	—	GLA	—	
		18%(v/v) HCl	—	GHA	—	
		5% (v/v) Lactic acid	—	GHA	—	
16	Classification for burning behavior Class A1	Average temperature rise in furnace(°C)	≤30	2	Pass	GB/T 5464-2010
		Average mass loss rate(%)	≤50	0	Pass	
		Mean duration of flaming(s)	0	0	Pass	
		Gross calorific potential(MJ/kg)	≤2.0	-0.2	Pass	GB/T 14402-2007
Remarks: 1. Test Site: GuanZhuang. 2. No detectable indication: (Pb<0.0005, Cd<0.0003) mg/dm ² .						

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			A	B	C			
17	Radionuclides	Internal exposure index I_{Ra}	≤ 1.0	≤ 1.3	—	0.2	Pass A	GB 6566-2010
		External exposure index I_r	≤ 1.3	≤ 1.9	≤ 2.8	0.5		

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Remarks: 1. Test Site: GuanZhuang.

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