

TEST REPORT

(Report No.) : Q8447,Q8448,Q8451/X161207-01,YL161207-01,JM161207-03

Name of Sample	MVG575, MVG579, MVG583	Received Date	2019/12/07
Customer Information		Lab Environment	20°C, 60%RH
Applicant		Shape of Sample	600*1200mm
Testing Category	See Below	Quantity of Sample	8
Test Standard	GB/T3810-2006,GB/T4100-2015,JC/T872-2000,GB/T13891-2008	Reported Date	2019/12/07 ~ 16
Results of Inspection			

600mm x 600mm x 10mm

No	Test Item	Units	Reference Standards	Results	
1	Dimensions	Length	mm	600 ± 3.0	600.06
		Thickness	mm	10 ± 0.5	9.82
2	Flatness Inspection	Centre Curvature	%	± 0.4	0 ~ ± 0.04
		Edge Curvature	%	± 0.4	-0.05 ~ ± 0.05
		Warpage	%	± 0.4	+0.01 ~ ± 0.15
3	Surface Quality	---	No clear defect of greater than 95%	No eyeable defect	
4	Water Absorbtion	%	≤0.5	Average Value: 0.03 Single Value: 0.03 ~ 0.04	
5	MOHS Hardness	---	---	4	
6	Resistance Stains	---	≥Class 3	5Class	
7	Resistance To Surface Abrasion	---	---	1500 turns, Class3	
8	Breaking Strength	N	≥1300	2610	
	Modulus Resistance	MPa	≥35	Average Value: 50.63 Single Value: 50.16 ~ 51.12	
9	Frost Resistance	---	---	No cracks or damage	
10	Resistance to Cracking	---	After the test without glaze crack	Full Resistant	
11	Thermal Shock Resistance (145°C, 15°C Cooling Water Flow)	---	---	Full Resistant	
12	60° Mirror Gloss	---	---	22.6 ~ 23.8	
13	Static Coefficient of Friction	Dry	---	0.54	
		Wet	---	0.51	

Important Notes:

The results in this report apply to the samples only.

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Applicant		Shape of Sample	600*1200mm
Testing Category	See Below	Quantity of Sample	8
Test Standard	GB/T3810-2006,GB/T4100-2015,JC/T872-2000,GB/T13891-2008	Reported Date	2019/12/07 ~ 12
Results of Inspection			

Test Condition: Heating Rate 5°C/ min

Temperature Range (°C)	Coefficient of Mean Linear Thermal Expansion ($\times 10^{-6} / ^\circ\text{C}$)
30 ~ 100	6.17

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Customer Information		Lab Environment	20°C, 60%RH
Applicant		Shape of Sample	600*1200mm
Testing Category	See Below	Quantity of Sample	8
Test Standard	GB6566-2010	Reported Date	2019/12/07 ~ 12
Results of Inspection			

No	Test Index	Results
1	Ra226	95.0 (Bq/kg)
2	Th232	136.7 (Bq/kg)
3	K40	939.4 (Bq/kg)
4	Internal Exposure Index (I_{Ra})	0.5
5	External Exposure Index (I_r)	1.0

Limits of Radionuclides in Decorative Materials Classification:

No	Classification	Reference Value
1	Class A is unrestricted use	$I_{Ra} \leq 1.0$
		$I_r \leq 1.3$
2	Class B is not available for class I Civil Buildings	$I_{Ra} \leq 1.3$
		$I_r \leq 1.9$
3	C can only be used for building exterior finishes and outdoor use.	$I_r \leq 2.8$

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