

TEST REPORT
(Report No.) : 201001801432

Name of Sample	MVG919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 542, 543, 544, 545, 546	Received Date	2018/04/28
Testing Category	See Below	Reported Date	2018/05/07
Test Standard	ISO 13006:2012	Shape of Sample	75x3000x8mm
Quantity of Sample	30		
Results of Inspection			

Test Item	Provisions of Standard	Test Results	Judgement	Test Method
Length	The deviation, in %, of the average size for each tile (2/4 sides) from the work size: $\pm 0.5\%$ ($\pm 2.0\text{mm}$)	-0.2%~+0.2%	Passed	ISO10545-2 1995
Width	The deviation, in %, of the average size for each tile (2/4 sides) from the work size: $\pm 0.75\text{mm}$	+0.4mm~+0.7mm	Passed	
Thickness Deviation	The deviation, in %, of the average thickness of each tile from the work size: $\pm 10\%$ ($\pm 0.5\text{mm}$)	-2.7%~+1.4%	Passed	
Straightness of sides	The maximum deviation from straightness, in %, related to the corresponding work sizes: $\pm 0.3\%$ ($\pm 1.5\text{mm}$)	-0.1%~+0.1%	Passed	
Rectangularity	The maximum deviation from Rectangularity, in %, related to the corresponding work sizes: $\pm 0.5\%$ ($\pm 2.0\text{mm}$)	-0.2%~+0.2%	Passed	
Surface Flatness	Centre Curvature Centre curvature, related to diagonal calculated from the work size: -0.3%~+0.5% (-1.5mm~2.0mm)	-0.1%~+0.2%	Passed	
	Edge Curvature Edge curvature, related to the corresponding work size: -0.3%~+0.5% (-1.5m~2.0mm)	-0.2%~+0.3%	Passed	
	Warpage Warpage, related to diagonal calculated from the work size: $\pm 0.5\%$ ($\pm 2.0\text{mm}$)	-0.1%~+0.3%	Passed	
Surface Quality	A minimum of 95% of the tiles shall be free from visible defects that would impair the appearance of a major area of tiles.	Passed	Passed	
Water Absorption	Average: $E > 10\%$ Individual minimum: 9%	Average: 16% Individual minimum: 17%	Passed	
Breaking Strength	Thickness < 7.5mm, $\geq 200\text{N}$	522N	Passed	ISO10545-4 2014
Modulus of rupture	Thickness < 7.5mm, $\geq 15\text{Mpa}$	19Mpa	Passed	
Impact Resistance	Test Method Available	Average: 0.58	---	ISO10545-5 1996
Resistance to surface abrasion of glazed tiles	Report abrasion class & cycles passed	Class 3 at 750 revolutions	---	ISO10545-7 1996
Coefficient of linear thermal expansion	Test Method Available	6.6x10 ⁻⁶ °C	---	ISO10545-8 2014
		6.7x10 ⁻⁶ °C		
Thermal shock resistance	Fully resistant	Fully Resistant	Passed	ISO10545-9 2004

Important Notes:
The results in this report apply to the samples only.

Test Item	Provisions of Standard	Test Results	Judgement	Test Method
Moisture Expansion	Test Method Available	Average:0.01%	---	ISO10545-10 1995
Crazing Resistance	No craze on glazed surface	No Craze	Passed	ISO10545-11 1994
Resistance to Frost	No crazing or peeling	No crazing or peeling	Passed	ISO10545-12 1995
Resistance to low concentrations of acids and alkalis	Manufacturer to state classification	GLA	---	ISO10545-13 1995
Resistance to household chemicals and swimming pool salts	Minimum GB	GA	Passed	
Resistance to staining	Minimum Class 3	Class 5	Passed	ISO10545-14 1995

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