VOLCANO - Technical specifications

ISO 13006 - EN 14411 - ISO 10545 Standards

Nominal size: **30x60;30.5x60.5;60x60;80x80; 100x100;60x120**	Thickness (mm): **8.5; 20**
Sides: **natural, rectified**	Surface: **natural, advance, grip**
	Product Group: **BIa-GL**

Technical characteristics		**Test method**	**EN 14411 and ISO 13006 requirements**	**Italcer Average values**
Dimensions	Length and width	ISO 10545-2	±0.6% and ± 2.0mm Rect. : ±0.3% and ± 1.0mm	Compliant
	Straightness of sides	ISO 10545-2	±0.5% and ± 1.5mm Rect. : ±0.3% and ± 0.8mm	Compliant
	Rectangularity	ISO 10545-2	±0.5% and ± 2.0mm Rect. : ±0.3% and ± 1.5mm	Compliant
	Flatness	ISO 10545-2	±0.5% and ± 2.0mm Rect. : ±0.4% and ± 1.8mm	Compliant
	Thickness	ISO 10545-2	±5% and ± 0.5mm	Compliant
Water absorption		ISO 10545-3	≤ 0.1%	<0.1%
Modulus of rupture		ISO 10545-4	≥ 35 N/mm^2	>50 N/mm^2
Breaking strength (S)		ISO 10545-4	≥1300 N	Compliant
Abrasion resistance		ISO 10545-7	Declared class	PEI 5 (White, Ice) PEI 4
Linear thermal expansion		ISO 10545-8	Declared value	$\alpha \leq 7.1x10^{-6}$ $°C^{-1}$
Thermal shock resistance		ISO 10545-9	No alterations	Resistant
Frost resistance		ISO 10545-12	No alterations	Resistant
Chemical resistance		ISO 10545-13	Declared value	LA – HA
Household chemicals resistance		ISO 10545-13	B min.	A
Stain resistance		ISO 10545-14	Class 3 min.	5
Mohs Hardness		UNI EN 101	5 Min.	7
Slip Resistance		DIN 51130	Declared value	R10 ; R11(h20, grip)
		DIN 51097	Declared value	B ; C(h20, grip)
		ANSI A137.1	Declared value	>0.42
		B.C.R.A. Rep. CEC/81	Declared value	/
		BS 7976	Declared value	Wet : 25<x<35 ; >36 (h20, grip)
Shade variation		ANSI A 137.1	Not required	V3
Fire reaction		UNI EN 13501-1	-	$A1_{FL}$ class
Thermal Conductivity		EN 12524	Not required	λ = 1.3 W/m·°K
Light and colour fastness		DIN 51094	Not required	No variations

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Italcer Quality Department