

LYON - Technical specifications

ISO 13006 - EN 14411 - ISO 10545 Standards

Nominal sizes (cm): 15x61	Thickness (mm) : 7-11
Sides: Natural	Surface: 3D
	Product Group: Bla-GL

Technical characteristics		Test method	EN 14411 and ISO 13006 requirements	Italcer Average values
Dimensions	Length and width	ISO 10545-2	$\pm 0.6\%$ and $\pm 2.0\text{mm}$ Rect. : $\pm 0.3\%$ and $\pm 1.0\text{mm}$	Compliant
	Straightness of sides	ISO 10545-2	$\pm 0.5\%$ and $\pm 1.5\text{mm}$ Rect. : $\pm 0.3\%$ and $\pm 0.8\text{mm}$	Compliant
	Rectangularity	ISO 10545-2	$\pm 0.5\%$ and $\pm 2.0\text{mm}$ Rect. : $\pm 0.3\%$ and $\pm 1.5\text{mm}$	Compliant
	Flatness	ISO 10545-2	$\pm 0.5\%$ and $\pm 2.0\text{mm}$ Rect. : $\pm 0.4\%$ and $\pm 1.8\text{mm}$	Compliant
	Thickness	ISO 10545-2	$\pm 5\%$ and $\pm 0.5\text{mm}$	Compliant
Water absorption		ISO 10545-3	$\leq 0.5\%$	$< 0.1\%$
Modulus of rupture		ISO 10545-4	$\geq 35 \text{ N/mm}^2$	$> 55 \text{ N/mm}^2$
Breaking strength (S)		ISO 10545-4	$\geq 1300 \text{ N}$	Compliant
Abrasion resistance		ISO 10545-7	Declared class	/
Linear thermal expansion		ISO 10545-8	Declared value	$\alpha \leq 7.1 \times 10^{-6} \text{ }^\circ\text{C}^{-1}$
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
Shade variation		ANSI A 137.1	Not required	V4
Fire reaction		UNI EN 13501-1	-	A1 _{FL} class
Thermal Conductivity		EN 12524	Not required	$\lambda = 1.3 \text{ W/m}\cdot\text{K}$
Light and colour fastness		DIN 51094	Not required	No variations

Rubiera, January 18 2024

Italcer Quality Department