

KIST LUX - Technical specifications

ISO 13006 - EN 14411 - ISO 10545 Standards

Nominal sizes (cm): 4.8x45	Thickness (mm) : 9.5
Sides: Natural	Surface: glossy
	Product Group: Bla-UGL

	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	≤ 0.5%	Compliant
	Modulus of rupture	ISO 10545-4	≥ 35 N/mm ²	Compliant
	Breaking strength (S)	ISO 10545-4	≥ 700 N	Compliant
	Abrasion resistance	ISO 10545-6	≤ 175 mm ³	Compliant
	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.	Compliant
	Stain resistance	ISO 10545-14	Class 3 min.	Compliant
	Mohs Hardness	UNI EN 101	5 Min.	Compliant
	Shade variation	ANSI A 137.1	Not required	V3
	Fire reaction	UNI EN 13501-1	Not required	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, September 12, 2024

Italcer Quality Department