

Nautilus - Technical specifications

ISO 13006 - EN 14411 - ISO 10545 Standards

Nominal sizes (cm): 160x320; 120x280; 120x120	Thickness (mm) : 6
Sides: Rectified	Surface: polished
	Product Group: Bla-UGL

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	$\leq 0.5\%$	Compliant
Modulus of rupture		ISO 10545-4	$\geq 35 \text{ N/mm}^2$	Compliant
Breaking strength (S)		ISO 10545-4	$\geq 7,5 \text{ mm} = \geq 1300 \text{ N}$ $< 7 \text{ mm} = \geq 700 \text{ N}$	Compliant
Deep Abrasion resistance		ISO 10545-6	$\leq 175 \text{ mm}^3$	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.	Resistant
Stain resistance		ISO 10545-14	Class 3 min.	Resistant
Slip Resistance		ANSI A326.3:2021	Declared value	< 0.42
Shade variation		ANSI A 137.1	Not required	V2
Fire reaction		UNI EN 13501-1	-	A1 _{FL} class
Thermal Conductivity		EN 12524	Not required	$\lambda = 1.3 \text{ W/m}\cdot^\circ\text{K}$
Light and colour fastness		DIN 51094	Not required	No variations

Rubiera, April 17, 2025

Italcer Quality Department