

SHELL - Technical specifications

ISO 13006 - EN 14411 - ISO 10545 Standards

Nominal sizes (cm): 60x60; 60x120; 120x120	Thickness (mm) : 8.5
Sides: Rectified	Surface: 3D matt, 3D Satin, grip
	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	Compliant
	Straightness of sides	ISO 10545-2	±0.5% and ± 1.5mm	Compliant
	Rectangularity	ISO 10545-2	±0.5% and ± 2.0mm	Compliant
	Flatness	ISO 10545-2	±0.5% and ± 2.0mm	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	≥ 1300 N	Compliant
Abrasion resistance		ISO 10545-6	Declared value	Resistant
Linear thermal expansion		ISO 10545-8	Declared value	α ≤ 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.	Compliant
Stain resistance		ISO 10545-14	Class 3 min.	5
Mohs Hardness		UNI EN 101	5 Min.	6
Slip Resistance		EN 16165 an.B	Declared value	R10 (3D matt) ; R11 (grip)
		EN 16165 an.A	Declared value	B (3D matt) ; C (grip)
		ANSI A326.3	Declared value	>0.42 (3D matt e grip)
		B.C.R.A. Rep. CEC/81	Declared value	>0.4 (3D matt e grip)
		EN 16165 an.C	Declared value	Wet : >36 (3D matt e grip)
Shade variation		ANSI A 137.1	Not required	V2
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