

## LUDO - Technical specifications

ISO 13006 - EN 14411 - ISO 10545 Standards

Nominal sizes (cm): <b>60x120</b>	Thickness (mm) : <b>7</b>
Sides: <b>Rectified</b>	Product Group: <b>Bla-GL (gres)</b>
	Product Group: <b>BIII (pasta bianca)</b>

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% (gres) <10 % (pasta bianca)	Compliant
Modulus of rupture		ISO 10545-4	≥ 35 N/mm <sup>2</sup> (gres) ≥ 15 N/mm <sup>2</sup> (pasta bianca)	Compliant
Breaking strength (S)		ISO 10545-4	≥ 700 N (gres) ≥ 200 N (pasta bianca)	Compliant
Thermal shock resistance		ISO 10545-9	No alterations	Resistant (gres)
Frost resistance		ISO 10545-12	No alterations	Resistant (gres)
Chemical resistance		ISO 10545-13	Declared value	LA – HA (gres)
Household chemicals resistance		ISO 10545-13	B min.	B (gres)
Stain resistance		ISO 10545-14	Class 3 min.	5 (gres)
Mohs Hardness		UNI EN 101	5 Min.	6 (gres)
Shade variation		ANSI A 137.1	Not required	V1
Fire reaction		UNI EN 13501-1	-	A1 <sub>FL</sub> class
Thermal Conductivity		EN 12524	Not required	λ = 1.3 W/m·°K
Light and colour fastness		DIN 51094	Not required	No variations

Rubiera, December 1st 2022

Italcer Quality Department