

Technical Characteristics



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Technical Characteristics

Standard EN 14411 - G Bla

Technical Characteristics	Standard Norm	Required Values	Valutation
DIMENSIONAL STANDARD			
Length and width	ISO 10545-2	±0,6% / ±2,0 mm	Comply
Edge straightness	ISO 10545-2	±0,5% / ±1,5 mm	Comply
Rectangularity	ISO 10545-2	±0,5% / ±2,0 mm	Comply
Flatness - Centre curvature	ISO 10545-2	±0,5% / ±2,0 mm	Comply
Flatness - Edge curvature	ISO 10545-2	±0,5% / ±2,0 mm	Comply
Flatness - Warpage	ISO 10545-2	±0,5% / ±2,0 mm	Comply
Thickness	ISO 10545-2	±5% / ±0,5 mm	Comply
Surface quality	ISO 10545-2	Minimum 95%	Comply
MECHANICAL STANDARD			
Water absorption	ISO 10545-3	Maximum 0,5%	~ 0,1%
Modulus of rupture	ISO 10545-4	> 35 N/mm ²	Comply
Breaking strength	ISO 10545-4	> 1300 N	Comply
Impact resistance	ISO 10545-5	Declared value	~ 0,89 (COR)
Linear thermal expansion	ISO 10545-8	Declared value	$\alpha = \sim 6,1 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$
Thermal shock resistance	ISO 10545-9	Pass	Comply
Moisture Expansion	ISO 10545-10	Declared value	~ 0,04 mm/m
Crazing Resistance	ISO 10545-11	Pass	Comply
Frost Resistance	ISO 10545-12	Pass	Comply
Chemical Resistance	ISO 10545-13	Minimum class GB	Comply
DEEP Abrasion	ISO 10545-6	< 175 mm ³	~ 135 mm ³
MOHS		Declared value	Mohs ≥ 5
SAFETY STANDARD - International requirements			
Stain resistance	ISO 10545-14	Minimum class 3	Comply

Values reflect an average among tests performed in our laboratory according to the standard requirements and/or through third-party laboratories. Tests are performed on actual production, using first-choice material. Values may vary between single individual production runs. The Optimum Surfaces Technical team will be pleased to integrate and answer specific questions.

