

# TECHNICAL FEATURES



CHARACTERISTIC	STANDARD AS PER GROUP ISO-13006/EN14411	ASIA PACIFIC VALUE	TEST METHOD
<b>REGULATORY PROPERTIES</b>			
Deviation in length & width	+ 0.5 %	+ 0.1 %	ISO-10545-2
Deviation in thickness	+ 5.0 %	+ 4.0 %	ISO-10545-2
Straightness in sides	+ 0.5 %	+ 0.1 %	ISO-10545-2
Rectangularity	+ 0.5 %	+ 0.1 %	ISO-10545-2
Surface flatness	+ 0.5 %	+ 0.2 %	ISO-10545-2
Surface quality	Min. 95% defect free	> 95%	ISO-10545-2
Glossiness	> 90 GU	> 92 GU	Gloss meter 60°
<b>STRUCTURAL PROPERTIES</b>			
Water absorption	< 0.50%	< 0.05%	ISO-10545-3
Apparent density	> 2.0 g/cc	> 2.20 g/cc	DIN 51082
<b>MASSIVE MECHANICAL PROPERTIES</b>			
Modulus of rupture	> 35 N/mm <sup>2</sup>	> 40 N/mm <sup>2</sup>	ISO-10545-4
Breaking strength	> 1300 N	> 1800 N	ISO-10545-4
Impact resistance (COR)	>0.55	>0.55	ISO-10545-5
<b>SURFACE MECHANICAL PROPERTIES</b>			
Surface abrasion resistance	Declared class	Class PEI 4 (2100 revolutions)	EN 154
Surface scratch hardness (Mohs scale)	5	5	EN 101
<b>THERMO HYGROMETRIC PROPERTIES</b>			
Frost resistance	Test passed in accordance with test method	Pass	ISO-10545-12
Thermal shock resistance	Min. 10 cycle	Pass	ISO-10545-9
Moisture expansion	0.06mm/m	0.01mm/m	ISO-10545-10
Thermal expansion (COE)	Max. 9.0 x 10	Max. 6.5 x 10	ISO-10545-8
Crazing resistance	No damage	No damage	ISO-10545-11
<b>CHEMICAL PROPERTIES</b>			
Chemical resistance	No damage	No damage	ISO-10545-13
Stain resistance	Min. Class 3	Class 5	ISO-10545-14
<b>SAFETY PROPERTIES</b>			
Slip resistance (COF)	Declared value	> 0.40 dry, <0.40 wet	ISO-10545-17
Reaction to fire Class	A1 or A1 fl	Class A1 - A1 fl	N.A.

