

Technical Specification

CHARACTERISTIC	STANDARD AS PER ISO-13006/EN14411 GROUP B1a	MEAN VALUE OF METRO POLISHED GVT	MEAN VALUE OF METRO SATIN GVT	STANDARD TEST METHOD
REGULATORY PROPERTIES				
Length and Width	± 0.5 %	± 0.1 %	± 0.1 %	ISO 10545-2
Thickness	± 5.0 %	± 4.0 %	± 4.0 %	ISO 10545-2
Straightness of Sides	± 0.5 %	± 0.1 %	± 0.1 %	ISO 10545-2
Rectangularity	± 0.5 %	± 0.1 %	± 0.1 %	ISO 10545-2
Surface Flatness	± 0.5 %	± 0.2 %	± 0.2 %	ISO 10545-2
Color difference	Unaltered	No change	No change	ISO 10545-16
Glossiness	As per mfg	Min 90%	Min 4%	GLOSSOMETER
STRUCTURAL PROPERTIES				
Water Absorption	± 0.50 %	± 0.20 %	± 0.20 %	ISO 10545-3
Apparent density	± 2.0 g/cc	± 2.10 g/cc	± 2.10 g/cc	DIN 51082
MASSIVE MECHANICAL PROPERTIES				
Modulus of Rupture	Min. 34 N/mm ²	Min. 40 N/mm ²	Min. 40 N/mm ²	ISO 10545-4
Breaking Strength	Min. 1300 N	Min. 2000 N	Min. 2000 N	ISO 10545-4
Impact resistance	As per mfg.	Min. 0.55	Min. 0.55	ISO 10545-5
SURFACE MECHANICAL PROPERTIES				
Surface abrasion resistance	As per mfg.	Min. Class-3	Min. Class-4	ISO 10545-7
MOH' s hardness	As per mfg.	Min. 4	Min. 5	EN 101
TERMO HYGROMETRIC PROPERTIES				
Frost Resistance	No damage	No damage	No damage	ISO 10545-12
Thermal Shock Resistance	No damage	No damage	No damage	ISO 10545-9
Moisture expansion	Nil	Nil	Nil	ISO 10545-10
Thermal expansion (COE)	Max. 9.0 x 10.6	Max. 6.5 x 10	Max. 6.5 x 10	ISO 10545-8
Crazing resistance	As per mfg.	Min. 10 Cycle	Min. 10 Cycle	ISO 10545-11
CHEMICAL PROPERTIES				
Chemical resistance	No damage	No damage	No damage	ISO 10545-13
Stain resistance	Resistant	Resistant	Resistant	ISO 10545-14
SAFETY PROPERTIES				
Slip resistance	As per mfg.	>4.40	>4.40	ISO 10545-17
Stain resistance	As per mfg.	Fireproof	Fireproof	N.A.
Lead & Cadmium given off by glazed tiles	As per mfg.	Does not field Pb & Cd	Does not field Pb & Cd	ISO 10545-15