

Technical Specification

CHARACTERISTIC	STANDARD AS PER ISO-13006/ EN14411 GROUP BIa	MEAN VALUE OF ICON PGVT	MEAN VALUE OF ICON GVT	Method of Testing
Deviation in length & width	± 0.5 %	± 0.1 %	± 0.1 %	ISO-10545-2
Deviation in thickness	± 5.0 %	± 4.0 %	± 4.0 %	ISO-10545-2
Straightness in side	± 0.5 %	± 0.1 %	± 0.1 %	ISO-10545-2
Rectangularity	± 0.6 %	± 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
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
Modulus of rupture	Min. 35 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 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
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 ⁻⁶	Max. 6.5 x 10 ⁻⁶	ISO-10545-8
Crazing resistance	As per mfg	Min. 10 Cycle	Min. 10 Cycle	ISO-10545-11