

PPS TECHINAL DATA SHEET - FULL BODY PORCELAIN SLAB

CHARACTERISTIC	STANDARD AS PER ISO13006:2018 / EN14411 Gr.Bla	STANDARD AS PER IS 15622:2017 Gr.Bla	METHOD OF TESTING	PORCEKO MEAN VALUE
REGULATORY PROPERTIES				
Deviation in Length and Width	±0.30 % (±1.00 mm)	±0.10 %	ISO 10545-2/ IS 13630-1	± 0.10 %
Deviation in Thickness	±5.0 % (± 0.50 mm)	±5.0 %	ISO 10545-2/ IS 13630-1	± 4.0 %
Straightness in Side	±0.30 % (± 0.80 mm)	±0.10 %	ISO 10545-2/ IS 13630-1	± 0.10 %
Rectangularity	±0.30 % (±1.50 mm)	±0.10%	ISO 10545-2/ IS 13630-1	± 0.10 %
Surface Flatness Central Curvature	±0.40 % (± 1.80 mm)	±0.50 %	ISO 10545-2/ IS 13630-1	± 0.20 %
Surface Flatness Edge Curvature	±0.40 % (± 1.80 mm)	±0.50 %	ISO 10545-2/ IS 13630-1	± 0.20 %
Surface Flatness Warpage	±0.40 % (± 1.80 mm)	±0.50 %	ISO 10545-2/ IS 13630-1	± 0.10 %
Surface Quality	>95% defects free	>95% defects free	ISO 10545-2/ IS 13630-1	>95% defects free
Small Color Difference (For Plain Colour)	ΔE <1.00	N.A.	ISO 10545-16	ΔE <0.80
Glossiness (Polished)	As per Manufacturer	As per Manufacturer	Gloss Meter 60°	≥ 90
STRUCTURAL PROPERTIES				
Water Absorption	≤0.50 %	≤0.080 %	ISO 10545-3/ IS 13630-2	≤0.080 %
Bulk Density	As per Manufacturer	Min 2.20 g/cc	ISO 10545-3/ IS 13630-2	> 2.28 gm/cc
MASSIVE MECHANICAL PROPERTIES				
Modulus of Rupture	Min. 35.0 N/mm ²	Min. 35.0 N/mm ²	ISO 10545-4/ IS 13630-6	Min. 40.0 N/mm ²
Breaking Strength Thickness ≥7.5 mm	Min 1300.0 N	Min 1300.0 N	ISO 10545-4/ IS 13630-6	Min 6000.0 N
SURFACE MECHANICAL PROPERTIES				
MOH'S Hardness #	As per Manufacturer	Min. 5	BS EN 15771/ IS 13630-13	Polished Min 4**/ Crestamatte'Min 6
Deep Abrasion Resistance #	Max. 175 mm ³	Max. 140 mm ³	ISO 10545-6/ IS 13630-12	Max 132 mm ³
THERMAL HYGROMETRIC PROPERTIES				
Moisture Expansion	Max 0.06% (0.6 mm/m)	Max 0.02 mm/m	ISO 10545-10/ IS 13630-3	Max 0.02 mm/m
Thermal Expansion(COE) at 100°C	As per Manufacturer	Max. 6.0 x 10 ⁻⁶	ISO 10545-8/ IS 13630-4	Max. 6.0 x 10 ⁻⁶
Thermal Shock Resistance	Min 10 Cycle	Min 10 Cycle	ISO 10545-9/ IS 13630-5	Min 10 Cycle
Impact Resistance(COR) #	Min. 0.55	Min 0.55	ISO 10545-5/ IS 13630-14	Min 0.55
Frost Resistance	As per Manufacturer	As per Manufacturer	ISO 10545-12/ IS 13630-10	Frost Proof

Chemical Properties				
Resistance to Staining Unglazed	As per Manufacturer	Min Class 2	ISO 10545-14/ IS 13630-8	Min. Class 2/ Min. Class 2
Resistance to Household Chemicals & Swimming Pool Salts Unglazed	Min Class UB	As per Manufacturer	ISO 10545-13/ IS 13630-7	Min Class UB/ Min Class A
Resistance to Low Concentrate Acid and Alkalis Unglazed	As per Manufacturer	As per Manufacturer	ISO-10545-13/ IS 13630-7	Min Class ULB***/ Min Class A***
Resistance to High Concentrate Acid and Alkalis Unglazed	As per Manufacturer	As per Manufacturer	ISO-10545-13/ IS 13630-7	Min Class UHB***/ Min Class A***
Safety Properties				
Skid Resistance- (DCOF-WET PENDULUM)##	As per Manufacturer	As per Manufacturer	BS 7976-2	Poished≥P0, Crestamatte' ≥P1 Matt ≥P2
Slip Resistance -Satin/ Matt (DCOF- R Value)##	As per Manufacturer	As per Manufacturer	DIN 51130	R9 to R10

* Whichever is Lower

* With nano technology Depending on Application area (low or high intensity of traffic)

* Except Hydrofluoric Acid & it's compound

Tiles Intended for use on floor

For Floor tiles,as per customer requirement