

PASTELLI

TECHNICAL SPECIFICATION

	CHARACTERISTIC	METHOD OF TESTING	UNITS	STANDARD AS PER ISO13006:2018 / EN14411 Gr.Bla	POSH	PASTELLI
REGULATORY PROPERTIES	Deviation in Length and Width*	ISO 10545-2		±0.30 % (±1.00 mm)	±1.0 mm (±0.20 %)	±1.0 mm (±0.20 %)
	Deviation in Thickness*	ISO 10545-2	mm	±5.0 % (± 0.50 mm)	±0.5 mm (±5.0 %)	±0.5 mm (±5.0 %)
	Straightness in Side*	ISO 10545-2	mm	±0.30 % (± 0.80 mm)	±0.8 mm(±0.20 %)	±0.8 mm(±0.20 %)
	Rectangularity*	ISO 10545-2	mm	±0.30 % (±1.50 mm)	±1.2 mm(±0.20 %)	±1.2 mm(±0.20 %)
	Surface Flatness Central Curvature*	ISO 10545-2	mm	±0.40 % (± 1.80 mm)	±1.8 mm(±0.20 %)	±1.8 mm(±0.20 %)
	Surface Flatness Edge Curvature*	ISO 10545-2	mm	±0.40 % (± 1.80 mm)	±1.8 mm(±0.20 %)	±1.8 mm(±0.20 %)
	Surface Flatness Warpage*	ISO 10545-2	mm	±0.40 % (± 1.80 mm)	±1.8 mm(±0.20 %)	±1.8 mm(±0.20 %)
	Surface Quality	ISO 10545-2	%	>95% defects free	>95% defects free	>95% defects free
	Small Color Difference (For Plain Colour)	ISO 10545-16	ΔE	ΔE <1.00	ΔE <0.80	ΔE <0.80
STRUCTURAL PROPERTIES	Water Absorption	ISO 10545-3	%	≤0.50 %	≤0.080 %	≤0.080 %
	Bulk Density	ISO 10545-3	gm/cc	As per Manufacturer	> 2.28 gm/cc	> 2.28 gm/cc
MASSIVE MECHANICAL PROPERTIES	Modulus of Rupture >7.5 mm	ISO 10545-4	N/mm ²	Min. 35.0 N/mm ²	Min. 45.0 N/mm ²	Min. 45.0 N/mm ²
	Breaking Strength Thickness >7.5 mm (12 mm)	ISO 10545-4	N	Min 1300.0 N	Min 2500.0 N	Min 2500.0 N
	Breaking Strength Thickness >7.5 mm (20 mm)	ISO 10545-4	N	Min 1300.0 N	Min 7500.0 N	Min 7500.0 N
SURFACE MECHANICAL PROPERTIES	MOH'S Hardness	BS EN 15771	Number	As per Manufacturer	Min 6	Min 8
	Surface Abrasion Resistance	ISO 10545-7	Class	As per Manufacturer	PEI-III	PEI-V+**
	Deep Abrasion	ISO 10545-6	mm ³	<175 mm ³	<116 mm ³	<105 mm ³
THERMAL HYGROMETRIC PROPERTIES	Moisture Expansion	ISO 10545-10	mm/m	Max 0.06% (0.6 mm/m)	Max 0.02 mm/m	Max 0.02 mm/m
	Thermal Expansion(COE) at 100°C	ISO 10545-8	°C ⁻¹	As per Manufacturer	Max. 6.0 x 10 ⁻⁶	Max. 6.0 x 10 ⁻⁶
	Thermal Shock Resistance	ISO 10545-9	Cycles	Min 10 Cycle	Min 10 Cycle	Min 10 Cycle
	Impact Resistance(COR) #	ISO 10545-5	o - 1 value	Min. 0.55	Min 0.70	Min 0.70
	Frost Resistance	ISO 10545-12	Cycles	As per Manufacturer	Frost Proof	Frost Proof
CHEMICAL PROPERTIES	Resistance to Staining	ISO 10545-14	class	Min. Class 3	Min. Class 4	Min. Class 5
	Resistance to Household Chemicals & Swimming Pool Salts	ISO 10545-13	class	Min Class GB	Min Class UB	Min Class UB
	Resistance to Low Concentrate Acid and Alkalis	ISO-10545-13	class	As per Manufacturer	Min Class ULB***	Min Class ULB***
	Resistance to High Concentrate Acid and Alkalis	ISO-10545-13	class	As per Manufacturer	Min Class UHB***	Min Class UHB***
SAFETY PROPERTIES	Skid Resistance -(DCOF-WET PENDULUM)	ASTM E-303	DCOF	As per Manufacturer	0.20 - 0.40 (P1)	0.20 - 0.40 (P1)
	Slip Resistance -(DCOF- R Value)	DIN 51130	R value	As per Manufacturer	R9	R9
	Lead and Cadmium release (lead Concentration)	ISO-10545-15	mg/dm ²	As per Manufacturer	Does not yield	Does not yield
	Lead and Cadmium release (Cadmium Concentration)	ISO-10545-15	mg/dm ²	As per Manufacturer	Does not yield	Does not yield
	* Whichever is less is applicable for Rectified Size N>=15 CM					
	*** Except Hydrofluoric Acid & it's compound					
	**PEI-V+ 10x (1,20,000 Revolution)					
	Note: Length and width, orthogonality and straightness are not applicable for the NOT-rectified material.					

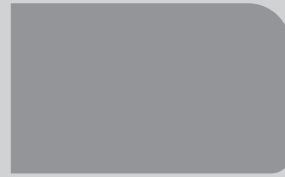
Edge types



Flat



1/4 Bevel



1/4 Radius



1/2 Bullnose



Full Bullnose



Knife



Birds Beak



45° Corner



Soft Corner

Application Areas



Kitchen
Counter Top



Vanity
Top



Bathub



Wash
Basin



Table
Top



Window and
Door Sill



Floor &
Wall



Staircase



Shower
Base



Dining
Table



Shelves