

TECHNICAL SPECIFICATIONS



VITRONA - MATT

CHARACTERISTIC	UNITS	STANDARD AS PER NS 617:2082 Gr.B Ia & IS 15622:2017 Gr.B Ia	STANDARD AS PER ISO 13006:2018/ EN14411 Gr.B Ia	MEAN VALUE OF LAMINAR	TESTING METHODS
REGULATORY PROPERTIES					
Deviation in Length and Width	mm	± 0,30% (±1,0MM)	± 0,10%	± 0,10%	NS 618:2082-1/ISO-10545-2
Deviation in Thickness	mm	± 5,0% (±0,5MM)	± 5,0%	± 5,0%	NS 618:2082-1/ISO-10545-2
Straightness in Side	mm	± 0,30% (±0,8MM)	± 0,10%	± 0,10%	NS 618:2082-1/ISO-10545-2
Rectangularity	mm	± 0,30% (±1,5MM)	± 0,10%	± 0,10%	NS 618:2082-1/ISO-10545-2
Surface Flatness Central Curvature	mm	± 0,40% (±1,8MM)	± 0,50%	± 0,20%	NS 618:2082-1/ISO-10545-2
Surface Flatness Edge Curvature	mm	± 0,40% (±1,8MM)	± 0,50%	± 0,20%	NS 618:2082-1/ISO-10545-2
Surface Flatness Edge Warpage	mm	± 0,40% (±1,8MM)	± 0,50%	± 0,10%	NS 618:2082-1/ISO-10545-2
Surface Quality	-	95% defects Free	95% defects Free	95% defects Free	NS 618:2082-1/ISO-10545-2
Glossiness - Matt	-	As per Manufacturer	As per Manufacturer	≤15	GLOSS METER 60°
STRUCTURAL PROPERTIES					
Water Absorption	%	Ev≤ 0,5%	Ev≤ 0,08%	Ev≤ 0,08%	NS 618:2082-2/ISO-10545-3
Bulk Density	Gm/Cc	2,2 Min	2,2	≥2,25	NS 618:2082-2/ISO-10545-3
MECHANICAL PROPERTIES					
Modulus of Rupture	N/mm ²	Min 35,0 N/mm ²	Min 35,0 N/mm ²	Min 38,0 N/mm ²	NS 618:2082-6/ISO-10545-4
Breaking Strength ≥ 8,5mm	N	Min 1300,0 N	Min 1300,0 N	Min 1700,0 N	NS 618:2082-6/ISO-10545-4
SURFACE MECHANICAL PROPERTIES					
MOH' S Hardness #	-	As per Manufacturer	Min, 5	Min, 5	NS 618:2082-13/BS EN 15771
Surface Abrasion Resistance	Class	As per Manufacturer	As per Manufacturer	Min Class II	NS 618:2082-11/ISO-10545-71
THERMAL HYDROMETRIC PROPERTIES					
Moisture Expansion	mm/m	Max 0,06% (0,6mm/m)	Max 0,02mm/m	Max 0,02mm/m	NS 618:2082-3/ISO-10545-10
Thermal expansions (COE) at 100°C	x10 ⁻⁶	As per Manufacturer	Max 6x10 ⁻⁶	Max 6x10 ⁻⁶	NS 618:2082-4/ISO-10545-8
Thermal Shock Resistance	Cycles	Min 10 Cycles	Min 10 Cycles	Min 10 Cycles	NS 618:2082-5/ISO-10545-9
Impact resistance (COR) #	-	Min 0,55	Min 0,55	Min 0,6	NS 618:2082-14/ISO-10545-5
Crazing Resistance	-	As per Manufacturer	4 - Cycles	5 - Cycles	NS 618:2082-9/ISO-10545-11
Frost Resistance	-	As per Manufacturer	As per Manufacturer	Frost Resistance	NS 618:2082-10/ISO-10545-12
CHEMICAL PROPERTIES					
Resistance of staining glazed	Class	Min class 3	Min Class 1	Min Class - 4 / Min Class - 1	NS 618:2082-8/ISO-10545-14
Resistance house hold chemical & swimming pool salts glazed	Class	Min Class GB	Min Class AA	Min Class GA / Min Class AA	NS 618:2082-8/ISO-10545-13
Resistance to low concentration Acids and alkali acids	Class	As per Manufacturer	As per Manufacturer	Min Class GLB+ / Min Class AA*	NS 618:2082-8/ISO-10545-13
Resistance to high concentrate acids and alkalis Acids	Class	As per Manufacturer	As per Manufacturer	Min Class GHB+/ Min Class A*	NS 618:2082-8/ISO-10545-13
SAFETY PROPERTIES					
Skid resistance - (DCOF - WET Pendulum)#	-	As per Manufacturer	As per Manufacturer	Min 0,20	IS 18433-1/ISO 10545-17

* Excepts Hydrofluoric Acid Its Compounds,
For Floor Tiles , As per Customer Requirements.

PACKING DETAILS

Sizes	Thickness	Pcs / Box	Coverage Area
600x1200mm	8,5mm	2 pcs	1,44 Square meter
600x600mm	8,5mm	4 pcs	1,44 Square meter



VITRONA - MATT CARVING

CHARACTERISTIC	UNITS	STANDARD AS PER NS 617:2082 Gr.B Ia & IS 15622:2017 Gr.B Ia	STANDARD AS PER ISO 13006:2018/ EN14411 Gr.B Ia	MEAN VALUE OF LAMINAR	TESTING METHODS
REGULATORY PROPERTIES					
Deviation in Length and Width	mm	± 0,30% (±1,0MM)	± 0,10%	± 0,10%	NS 618:2082-1/ISO-10545-2
Deviation in Thickness	mm	± 5,0% (±0,5MM)	± 5,0%	± 5,0%	NS 618:2082-1/ISO-10545-2
Straightness in Side	mm	± 0,30% (±0,8MM)	± 0,10%	± 0,10%	NS 618:2082-1/ISO-10545-2
Rectangularity	mm	± 0,30% (±1,5MM)	± 0,10%	± 0,10%	NS 618:2082-1/ISO-10545-2
Surface Flatness Central Curvature	mm	± 0,40% (±1,8MM)	± 0,50%	± 0,20%	NS 618:2082-1/ISO-10545-2
Surface Flatness Edge Curvature	mm	± 0,40% (±1,8MM)	± 0,50%	± 0,20%	NS 618:2082-1/ISO-10545-2
Surface Flatness Edge Warpage	mm	± 0,40% (±1,8MM)	± 0,50%	± 0,10%	NS 618:2082-1/ISO-10545-2
Surface Quality	-	95% defects Free	95% defects Free	95% defects Free	NS 618:2082-1/ISO-10545-2
Glossiness - Matt	-	As per Manufacturer	As per Manufacturer	≤15	GLOSS METER 60°
STRUCTURAL PROPERTIES					
Water Absorption	%	Ev≤ 0,5%	Ev≤ 0,08%	Ev≤ 0,08%	NS 618:2082-2/ISO-10545-3
Bulk Density	Gm/Cc	2,2 Min	2,2	≥2,25	NS 618:2082-2/ISO-10545-3
MECHANICAL PROPERTIES					
Modulus of Rupture	N/mm ²	Min 35,0 N/mm ²	Min 35,0 N/mm ²	Min 38,0 N/mm ²	NS 618:2082-6/ISO-10545-4
Breaking Strength ≥ 8,5mm	N	Min 1300,0 N	Min 1300,0 N	Min 1700,0 N	NS 618:2082-6/ISO-10545-4
SURFACE MECHANICAL PROPERTIES					
MOH' S Hardness #	-	As per Manufacturer	Min, 5	Min, 5	NS 618:2082-13/BS EN 15771
Surface Abrasion Resistance	Class	As per Manufacturer	As per Manufacturer	Min Class II	NS 618:2082-11/ISO-10545-71
THERMAL HYDROMETRIC PROPERTIES					
Moisture Expansion	mm/m	Max 0,06% (0,6mm/m)	Max 0,02mm/m	Max 0,02mm/m	NS 618:2082-3/ISO-10545-10
Thermal expansions (COE) at 100°C	x10 ⁻⁶	As per Manufacturer	Max 6x10 ⁻⁶	Max 6x10 ⁻⁶	NS 618:2082-4/ISO-10545-8
Thermal Shock Resistance	Cycles	Min 10 Cycles	Min 10 Cycles	Min 10 Cycles	NS 618:2082-5/ISO-10545-9
Impact resistance (COR) #	-	Min 0,55	Min 0,55	Min 0,6	NS 618:2082-14/ISO-10545-5
Crazing Resistance	-	As per Manufacturer	4 - Cycles	5 - Cycles	NS 618:2082-9/ISO-10545-11
Frost Resistance	-	As per Manufacturer	As per Manufacturer	Frost Resistance	NS 618:2082-10/ISO-10545-12
CHEMICAL PROPERTIES					
Resistance of staining glazed	Class	Min class 3	Min Class 1	Min Class - 4 / Min Class - 1	NS 618:2082-8/ISO-10545-14
Resistance house hold chemical & swimming pool salts glazed	Class	Min Class GB	Min Class AA	Min Class GA / Min Class AA	NS 618:2082-8/ISO-10545-13
Resistance to low concentration Acids and alkali acids	Class	As per Manufacturer	As per Manufacturer	Min Class GLB+ / Min Class AA*	NS 618:2082-8/ISO-10545-13
Resistance to high concentrate acids and alkalis Acids	Class	As per Manufacturer	As per Manufacturer	Min Class GHB+/ Min Class A*	NS 618:2082-8/ISO-10545-13
SAFETY PROPERTIES					
Skid resistance - (DCOF - WET Pendulum)#	-	As per Manufacturer	As per Manufacturer	Min 0,20	IS 18433-1/ISO 10545-17

* Excepts Hydrofluoric Acid Its Compounds,
For Floor Tiles , As per Customer Requirements.

PACKING DETAILS

Sizes	Thickness	Pcs / Box	Coverage Area
600x1200mm	8,5mm	2 pcs	1,44 Square meter
600x600mm	8,5mm	4 pcs	1,44 Square meter

TECHNICAL SPECIFICATIONS



VITRONA - GLOSSY

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REGULATORY PROPERTIES					
Deviation in Length and Width	mm	± 0,30% (±1,0MM)	± 0,10%	± 0,10%	NS 618:2082-1/ISO-10545-2
Deviation in Thickness	mm	± 5,0% (±0,5MM)	± 5,0%	± 5,0%	NS 618:2082-1/ISO-10545-2
Straightness in Side	mm	± 0,30% (±0,8MM)	± 0,10%	± 0,10%	NS 618:2082-1/ISO-10545-2
Rectangularity	mm	± 0,30% (±1,5MM)	± 0,10%	± 0,10%	NS 618:2082-1/ISO-10545-2
Surface Flatness Central Curvature	mm	± 0,40% (±1,8MM)	± 0,50%	± 0,20%	NS 618:2082-1/ISO-10545-2
Surface Flatness Edge Curvature	mm	± 0,40% (±1,8MM)	± 0,50%	± 0,20%	NS 618:2082-1/ISO-10545-2
Surface Flatness Edge Warpage	mm	± 0,40% (±1,8MM)	± 0,50%	± 0,10%	NS 618:2082-1/ISO-10545-2
Surface Quality	-	95% defects Free	95% defects Free	95% defects Free	NS 618:2082-1/ISO-10545-2
Glossiness - Glossy	-	As per Manufacturer	As per Manufacturer	Min. 90°	GLOSS METER 60°
STRUCTURAL PROPERTIES					
Water Absorption	%	Ev≤ 0,5%	Ev≤ 0,08%	Ev≤ 0,08%	NS 618:2082-2/ISO-10545-3
Bulk Density	Gm/Cc	2,2 Min	2,2	≥2,25	NS 618:2082-2/ISO-10545-3
MECHANICAL PROPERTIES					
Modulus of Rupture	N/mm ²	Min 35,0 N/mm ²	Min 35,0 N/mm ²	Min 38,0 N/mm ²	NS 618:2082-6/ISO-10545-4
Breaking Strength ≥ 8,5mm	N	Min 1300,0 N	Min 1300,0 N	Min 1700,0 N	NS 618:2082-6/ISO-10545-4
SURFACE MECHANICAL PROPERTIES					
Surface Abrasion Resistance	Class	As per Manufacturer	As per Manufacturer	Min Class II - Max Class III	NS 618:2082-11/ISO-10545-71
THERMAL HYDROMETRIC PROPERTIES					
Moisture Expansion	mm/m	Max 0,06% (0,6mm/m)	Max 0,02mm/m	Max 0,02mm/m	NS 618:2082-3/ISO-10545-10
Thermal expansions (COE) at 100°C	10 ⁻⁶	As per Manufacturer	Max 6x10 ⁻⁶	Max 6x10 ⁻⁶	NS 618:2082-4/ISO-10545-8
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SAFETY PROPERTIES					
Skid resistance - (DCOF - WET Pendulum)#	-	As per Manufacturer	As per Manufacturer	Min 0,20	IS 18433-1/ISO 10545-17

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