

Technical Specification

CHARACTERISTICS	Requirement as per ISO 13006:2012 Gr Bla E < 0.5%	Requirement as per IS 15622:2017 Gr Bla E < 0.08%	AGL Value	Test Method
(A) DIMENSION & SURFACE QUALITY				
Deviation In Length & Width	± 0.6%	± 0.1%	± 0.1%	ISO 10545 Part-2 IS 13630 Part-1
Deviation In Thickness	± 5.0%	± 5.0%	± 3.0%	ISO 10545 Part-2 IS 13630 Part-1
Straightness of Edge	± 0.5%	± 0.1%	± 0.1%	ISO 10545 Part-2 IS 13630 Part-1
Rectangularity	± 0.5%	± 0.1%	± 0.1%	ISO 10545 Part-2 IS 13630 Part-1
Surface Flatness	± 0.5%	± 0.5%	± 0.2%	ISO 10545 Part-2 IS 13630 Part-1
Surface Quality	Min. 95% of Tiles shall be free from visible defects that would impair the appearance of a major area of the tiles	Min. 95% of Tiles shall be free from visible defects that would impair the appearance of a major area of the tiles	Min. 95% of Tiles shall be free from visible defects that would impair the appearance of a major area of the tiles	ISO 10545 Part-2 IS 13630 Part-1
Glossiness	-	-	> 85	Glossmeter
(B) PHYSICAL & THERMAL PROPERTIES				
Water Absorption % By Wt.	0.5, Ind. 0.6 Max.	0.08, Ind. 0.1 Max.	0.05%	ISO 10545 Part-3 IS 13630 Part-2
Flexural Strength (MOR) In N/mm ²	Avr. 35, Ind. Min. 32	Avr. 35, Ind. Min. 32	> 40 N/mm ²	ISO 10545 Part-4 IS 13630 Part-6
Breaking Strength in N	Min. 1300 N	Min. 1300 N	> 2000 N	ISO 10545 Part-4 IS 13630 Part-6
Bulk Density (gm/cc)	2.0 Min.	2.2 Min.	> 2.3	ISO 10545 Part-3 IS 13630 Part-2
Impact Resistance	> 0.40	> 0.55	> 0.55	ISO 10545 Part-5 IS 13630 Part-14
Resistance to Deep Abrasion	175mm ³ Max.	140mm ³ Max.	120mm ³	ISO 10545 Part-6 IS 13630 Part-12
Co-efficient of Liner Thermal Expansion from ambient temp to 100°C (K-1)	9x10 ⁻⁶ Max.	6x10 ⁻⁶ Max.	< 6x10 ⁻⁶	ISO 10545 Part-8 IS 13630 Part-4
Thermal Shock Resistance	10 Cycle Min.	10 Cycle Min.	No Damage after 10 Cycles	ISO 10545 Part-9 IS 13630 Part-5
Moisture Expansion in mm/M	Test Method Available	0.02 Max.	Nil	ISO 10545 Part-10 IS 13630 Part-3
Frost Resistance	Resistance	Resistance	Resistance	ISO 10545 Part-12 IS 13630 Part-10
Moh'S Scratch Hardness	Min. 5	Min. 5	Min. 5	EN 101 IS 13630 Part-13
(C) CHEMICAL PROPERTIES				
Resistance To Household Chemicals	No Damage	Min. Class AA	Class AA	ISO 10545 Part-13 IS 13630 Part-7
Resistance To Acids & Alkalis (Except HF Acid)	No Damage	Min. Class AA	Class AA	ISO 10545 Part-13 IS 13630 Part-7
Stain Resistance	Min. Class 3	Min. Class 2	Resistance	ISO 10545 Part-14 IS 13630 Part-8

Packing Specification

Size (mm)	Thickness (mm)	Weight (Kg.)	No. of Tiles / Box	Area Sq. mtr./ Box
1000x1000mm (Jumbo)	12.5 mm	54.0 kgs.	02 pcs.	2.00m ²
800x800mm (Imperio)	9.6 mm	40.0 kgs.	03 pcs.	1.92m ²
1600x800mm (Double Charge)	10.2 mm	60 kgs.	02 pcs.	2.56 m ²
1200x600 (Double Charge)	9.2 mm	30.5 kgs.	02 pcs.	1.44 m ²
600x600mm (DC Retail)	9.0 mm	29.0 kgs.	04 pcs.	1.44m ²
600x600mm (DC Project)	8.4 mm	26.5 kgs.	04 pcs.	1.44m ²
600x600mm (Dual Smart)	9.0 mm	28.0 kgs.	04 pcs.	1.44m ²
600x600mm (SST)	8.6 mm	27.5 kgs.	04 pcs.	1.44m ²