

## Technical Specification

CHARACTERISTICS	Requirement as per ISO 13006:2018 Gr Bla E ≤ 0.5%	Requirement as per IS 15622:2017 Gr Bla E ≤ 0.08%	AGL Value	Test Method
<b>(A) DIMENSION &amp; SURFACE QUALITY</b>				
Deviation In Length & Width	± 0.3%, ± 1.0 mm	± 0.1%	± 0.1%	ISO 10545 Part-2 IS 13630 Part-1
Deviation In Thickness	± 5.0%, ± 0.5 mm	± 5.0%	± 3.0%	ISO 10545 Part-2 IS 13630 Part-1
Straightness of Edge	± 0.3%, ± 0.8 mm	± 0.1%	± 0.1%	ISO 10545 Part-2 IS 13630 Part-1
Rectangularity	± 0.3%, ± 1.5 mm	± 0.1%	± 0.1%	ISO 10545 Part-2 IS 13630 Part-1
Surface Flatness	± 0.4%, ± 1.8 mm	± 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>(B) PHYSICAL &amp; THERMAL PROPERTIES</b>				
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 <sup>2</sup>	Avr. 35, Ind. Min. 32	Avr. 35, Ind. Min. 32	≥ 40 N/mm <sup>2</sup>	ISO 10545 Part-4 IS 13630 Part-6
Breaking Strength in N	1300 N Min.	1300 N Min.	> 1800 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 <sup>3</sup> Max.	140mm <sup>3</sup> Max.	≤ 120mm <sup>3</sup>	ISO 10545 Part-6 IS 13630 Part-12
Co-efficient of Liner Thermal Expansion from ambient temp to 100°C (K-1)	9x10 <sup>-6</sup> Max.	6x10 <sup>-6</sup> Max.	≤ 6x10 <sup>-6</sup>	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
<b>(C) CHEMICAL PROPERTIES</b>				
Resistance To House hold 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 )	11.4 mm	49.5 kgs.	02 pcs.	2.00m <sup>2</sup>
800x800mm (Imperio)	9 mm	37.3 kgs.	03 pcs.	1.92m <sup>2</sup>
1200x600 (Full Body-Gloss)	9 mm	28.6 kgs.	02 pcs.	1.44 m <sup>2</sup>
1200x600 (Full Body-Matt)	9.4 mm	30 kgs.	02 pcs.	1.44 m <sup>2</sup>
600x600mm (Double Charge)	8.4 mm	26.7 kgs.	04 pcs.	1.44m <sup>2</sup>
600x600mm (SST)	8.1 mm	25.3 kgs.	04 pcs.	1.44m <sup>2</sup>
600x600mm (SST-SP)	7.8 mm	24.2 kgs.	04 pcs.	1.44m <sup>2</sup>