

## 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
<b>(A) DIMENSION &amp; SURFACE QUALITY</b>				
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>(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.	> 1300 N	ISO 10545 Part-4 IS 13630 Part-6
Bulk Density (gm/cc)	2.0 Min.	2.2 Min.	> 2.2	ISO 10545 Part-3 IS 13630 Part-2
Resistance to Surface Abrasion	Manufacturer to State Class	PEI II Min.	PEI III Min.	ISO 10545 Part-7 IS 13630 Part-11
Co-efficient of Linear Thermal Expansion from ambient temp to 100°C (K <sup>-1</sup> )	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 Cycles Min.	10 Cycles 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
Crazing Resistance	Required	4 Cycles at 7.5 bar Min.	Resistance	ISO 10545 Part-11 IS 13630 Part-9
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 Household Chemicals	No Damage	Min. Class AA	Class AA	ISO 10545 Part-13 IS 13630 Part-8
Resistance To Acids & Alkalis (Except HF Acid)	No Damage	Min. Class AA	Class AA	ISO 10545 Part-13 IS 13630 Part-8
Stain Resistance	Min. Class 3	Min. Class 1	Resistance	ISO 10545 Part-14 IS 13630 Part-8

## Packing Specification

Size (mm)	Thickness (mm)	Weight (Kg.)	No. of Tiles / Set	Area Sq. mtr./ Box
1200x600mm	7.8 mm (±0.2mm)	50.5 kgs.	04 pcs.	2.88m <sup>2</sup>