

Technical Specification

Characteristics	Requirement as per ISO 13006:2018 Gr Bla E < 0.5%	Requirement as per IS 15622:2017 Gr Bla E < 0.8%	Our Value	Test Method
(A) DIMENSION & SURFACE QUALITY				
 Deviation In Length & Width	± 0.3%, ± 1.0mm	± 0.1%	± 0.1%	ISO 10545 Part-2 IS 13630 Part-1
 Deviation In Thickness	± 5.0%, ± 0.5mm	± 5.0%	± 3.0%	
 Straightness of Edge	± 0.3%, ± 0.8mm	± 0.1%	± 0.1%	
 Rectangularity	± 0.3%, ± 1.5mm	± 0.1%	± 0.1%	
 Surface Flatness	± 0.4%, ± 1.8mm	± 0.5%	± 0.2%	
 Surface Quality	Min. 95% of Tiles shall be free from visible defects that would impair the appearance of a major area of the tiles.			
 Glossiness	-	-	>85	Gloss Meter
(B) PHYSICAL & THERMAL PROPERTIES				
 Water Absorption % By Wt.	≤ 0.5, Ind. 0.6 Max.	≤ 0.08, Ind. 0.1 Max.	≤ 0.08	ISO 10545 Part-3 IS 13630 Part-2
 Flexural Strength (MOR) In N/mm²	Avr. 35+	Avr. 35, Ind. Min. 32	Min.40 N/mm²	ISO 10545 Part-4 IS 13630 Part-6
 Breaking Strength in N	1300 N Min.	1300 N Min.	Min.1300N	
 Bulk Density (gm/cc)	2.0 Min.	2.2 Min.	Min. 2.25	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 Surface Abrasion	Manufacturer to State Class	PEI II Min.	PEI II Min.	ISO 10545 Part-7 IS 13630 Part-11
 Co-efficient of Linear Thermal Expansion from ambient temp to 100°C (K¹)	9x10 ⁻⁶ Max.	6x10 ⁻⁶ Max.	≤ 6x10 ⁻⁶ Max.	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
Mohs 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-8
 Resistance To Acids & Alkalis (Except HF Acid)	No Damage	Min. Class AA	Class AA	
 Stain Resistance	Min. Class 3	Min. Class 1	Resistance	ISO 10545 Part-14 IS 13630 Part-8

Packing Details

Sizes (mm)	Thicknesses (mm)	Weight (kg)	No. of Tiles / Set	Area Sq. mtr./Box
600x1200mm	8.5mm	27 kg	02 Pcs.	1.44m²