

## TECHNICAL SPECIFICATION 300x600MM / 12MM DURATECH

S.No.	PROPERTY	GROUP BIA - ISO 13006/EN-176	GROUP BIA IS :15622:2017	OUR VALUE	TEST ACCORDING TO
<b>Dimensions &amp; surface Quality</b>					
1.	Deviation in length and width	± 0.6%	± 0.1%	± 0.1%	ISO 10545:2/IS:13630 (P-1)
2.	Deviation in thickness	± 5%	± 5%	± 4%	ISO 10545:2/IS:13630 (P-1)
3.	Deviation in Staighness of sides	± 0.5%	± 0.1%	± 0.1%	ISO 10545:2/IS:13630 (P-1)
4.	Deviation in Rectangularity	± 0.5%	± 0.1%	± 0.1%	ISO 10545:2/IS:13630 (P-1)
5.	Deviation in Surface Flatness	± 0.5%	± 0.5%	± 0.2%	ISO 10545:2/IS:13630 (P-1)
6.	Surface Quality (%)	Minimum 95%	Minimum 95%	No visible defects	ISO 10545:2/IS:13630 (P-1)
<b>Physical characteristics</b>					
7.	Scratch Hardness of surface Moh's scale	Required	Min. 5	6	EN-101/IS:13630 (P-13)
8.	Water absorption	≤0.5%	Averages 0.08, Individual maximum 0.1%	<0.1%	ISO 10545:3/IS: 13630 (P-2)
9.	Moisture Expansion, in mm/m	Nil	0.02, Max	Nil	ISO 10545:10
10.	SurfaceAbrasion Resistance	As per Mfg.	Min Class 2	Min. Class-4	ISO 10545:7
<b>Mechanical characteristics</b>					
11.	Breaking strength	1300 N	Min 1300 N	>2200N	ISO 10545:4/IS: 13630 (P-6)
12.	Modulus of rupture	>35 N/mm <sup>2</sup>	Average 35, Individual minimum 32	≥40 N/mm <sup>2</sup>	ISO 10545:4/IS: 13630 (P-6)
13.	Impact resistance	Declared by manufacturer	0.55, Min	Min. 0.55	ISO 10545:5/IS:13630 (P-14)
<b>Safety characteristics</b>					
14.	Density	Required	Min 2.20 gm/cc	2.30 gm/cc	DIN 51082/IS: 13630 (P-2)
15.	Skid resistance (Friction coeeficient )	≥0.4	-	≥0.5	ISO 10545:17
<b>Thermo photo characteristics</b>					
16.	Thermal shock resistance	Resistant to 10 cycles	Min 10 cycles	Pass min 10 cycles	ISO 10545:9/IS: 13630 (P-5)
17.	Co efficient of thermal expansion	9×10 <sup>-6</sup> K <sup>-1</sup> Max	6×10 <sup>-6</sup> K <sup>-1</sup> Max	<6×10 <sup>-6</sup> K <sup>-1</sup> Max	ISO 10545:8/IS:13630 (P-4)
18.	Frost resistance	Resistant	Required	Resistant	ISO 10545:12/IS: 13630 (P-10)
19.	Crazing Resistance	As per Mfg.	-	Min 10 cycles	ISO 10545:11
<b>Chemical characteristics characteristics</b>					
20.	Stain Resistance	Min class-3	Required	Min conform to class-4'	ISO 10545:14
21.	Chemical Resistance HOUSE HOLD CHEMICAL & SWIMMING POOL SALT	min class-UB	Required	Conform to classes-UA'	ISO 10545:13/IS:13630 (P-7)
22.	Chemical Resistance LOW CONCENTRATIONS ACID & ALKALIES	min class-ULB	Required	Conform to classes-ULA'	ISO 10545:13/IS:13630 (P-7)
23.	Chemical Resistance HIGH CONCENTRATIONS ACID & ALKALIES	min class-UHB	Required	Conform to classes-UHA'	ISO 10545:13/IS:13630 (P-7)

## PACKING DETAILS

DIMENSIONS (MM)	NO. OF TILES / BOX	COVERAGE AREA
300x600	4 Pcs.	0.72 sqm.

\* Vitrified tiles have resistance to most of the stains/chemicals but, it is recommended to take due care while laying and for day-to-day maintenance.

\* Resistance to acids & alkalies (Exception Hydrofluoric Acids & its Compounds)