

SR.	CHARACTERISTIC	REQUIREMENT ISO-13006/GROUP BIA	MEGA TILE VALUE	TESTING METHOD
DIMENSIONS & SURFACE QUALITY				
1	Length / Width	±0.3%	±0.1%	ISO 10545-2
2	Thickness	±5%	±5%	ISO 10545-2
3	Straightness of Sides	±0.3%	±0.1%	ISO 10545-2
4	Rectangularity	±0.3%	±0.1%	ISO 10545-2
5	Surface Flatness	±0.4%	±0.1%	ISO 10545-2
6	Glossiness	declared by manufacturer	pol-92~100%, matt-10-20	ISO 2813 (Gloss meter)
7	Surface quality	Min.95% tiles should be free from defects	Min.95% tiles free from defects	ISO 10545-2
PHYSICAL CHARACTERISTICS				
1	Water Absorption	E≤ 0.5 %	≤ 0.08 %	ISO 10545-3
2	MOH's Hardness	≥ 5	≥ 5	IS13630-13
3	Moisture Expansion	nil	nil	ISO 10545-10
4	Abrasion Resistance	declared by manufacturer	PEI 3~5 (depend on product)	ISO 10545-7
MECHANICAL CHARACTERISTICS				
1	Flexural Strength (MOR)	≥ 35 N/mm2 (350 Kg/cm2)	≥ 38 N/mm2 (380 Kg/cm2) piece size (600×600)	ISO 10545-4
2	Breaking strength	1300 Newton	1800 Newton test piece size (600×600)	ISO 10545-4
3	Impact resistance	declared by manufacturer	no indentation or cracking	ISO 10545-5

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SAFETY CHARACTERISTICS				
1	Skid Resistance (dynamic Friction Coefficient)	≥ 0.4	≥ 0.4	ISO 10545-17
2	Density	≥ 2.0 gm/cc	2.3 gm/cc	DIN 51082
THERMO PHOTO CHARACTERISTICS				
1	Thermal Shock Resistance	resistant to 10 cycles	pass min10 cycles	ISO 10545-9
2	Crazing Resistance	In conformity with the Norms	Passed min 4 cycles at 7.5 kg/ cm2/168 °C	ISO 10545-11
3	Frost Resistance	frost proof	Need to comply with the standard	ISO 10545-12
4	Coefficient of linear Thermal Expansion	$9 \times 10^{-6} \text{ K}^{-1}$	$< 5.86 \times 10^{-6} \text{ K}^{-1}$	ISO 10545-8
5	Colour Resistance to UV light	resistant	resistant	ISO 10545-16
CHEMICAL CHARACTERISTICS				
1	Chemical Resistance HOUSEHOLD CHEMICALS & SWIMMING POOL SALTS	min class- GB	confirm to classes-GA	ISO 10545-13
2	Chemical Resistance LOW CONCENTRATIONS ACIDS & ALKALIS	min class- GLB	confirm to classes-GLA	ISO 10545-13
3	Chemical Resistance HIGH CONCENTRATIONS ACIDS & ALKALIS	min class- GHB	confirm to classes-GHA	ISO 10545-13
4	Stain Resistance	min class-3	min confirm to class-3	ISO 10545-14