

## TECHNICAL SPECIFICATIONS OF IMPACTA PRODUCTS

	S. NO	TECHNICAL PROPERTIES	METHOD OF TESTING	SIZED TILES		UN SIZED TILES	
				STD VALUE	RESTILE VALUE	STD VALUE	RESTILE VALUE
DIMENSIONAL PROPERTIES	1	Deviation in Length	IS:13756 Group:B1	± 0.2 %	± 0.15 %	± 0.75 %	± 0.60 %
	2	Deviation in Thickness	IS:13756 Group:B1	± 4.0 %	± 3.0 %	± 5.0 %	± 3.0 %
	3	Rectangularity	IS:13756 Group:B1	± 0.3 %	± 0.2 %	± 0.4 %	± 0.3 %
	4	Straightness of Sides	IS:13756 Group:B1	± 0.3 %	± 0.2 %	± 0.4 %	± 0.3 %
	5	Surface Flatness	IS:13756 Group:B1				
	6	a. Centre Curvature	IS:13756 Group:B1	± 0.3 %	± 0.2 %	± 0.4 %	± 0.3 %
	7	b. Edge Curvature	IS:13756 Group:B1	± 0.3 %	± 0.15 %	± 0.4 %	± 0.25 %
	8	c. Warpage	IS:13756 Group:B1	± 0.3 %	± 0.2 %	± 0.4 %	± 0.3 %
PHYSICAL PROPERTIES	9	Water Absorption	IS:13756 Group:B1a	≤ 0.08 %	≤ 0.07 %	0.08 < E < 3%	≤ 0.1 %
	10	Flexural Strength	IS:13756 Group:B1	≥ 44 N/mm <sup>2</sup>	> 45 N/mm <sup>2</sup>	≥ 44 N/mm <sup>2</sup>	> 45 N/mm <sup>2</sup>
	11	Breaking Strength	IS:13756 Group:B1	≥ 1500 N	≥ 2100 N	≥ 1500 N	≥ 2500 N
	12	MOHS Hardness	IS:13756 Group:B1	≥ 6 MOHS	≥ 8 MOHS	≥ 6 MOHS	≥ 8 MOHS
	13	Density	IS:13756 Group:B1	≥ 2.1 g/cc	> 2.2 g/cc	≥ 2.1 g/cc	> 2.2 g/cc
	14	Impact Resistance	IS:13756 Group:B1	Required	Excellent	Required	Excellent
	15	Thermal Shock Resistance	IS:13756 Group:B1	≥ 10 Cycles	≥ 50 Cycles	≥ 10 Cycles	≥ 50 Cycles
CHEMICAL PROPERTIES	16	Acid Resistance	IS:13756 Group:B1	Required	Excellent	Required	Excellent
	17	Alkali Resistance	IS:13756 Group:B1	Required	Excellent	Required	Excellent