

### Properties of Panjonia Granite

Sl No	Test	Conditions			Test Standard	Unit	Value
1	Bulk Density				ASTM- C97/C-97M-15	Kg/M3	2622.66
2	Bulk Specific Gravity				ASTM- C97/C-97M-15	gm	2.66
3	Water absorption				ASTM- C97/C-97M-15	%	0.24
4	Compressive Strength	Dry Conditions	Perpendicular to bedding plains	ASTM- C170/C170M-15a	Mpa	161.6	
			Parallel to bedding plains			116.6	
		Wet conditions	Perpendicular to bedding plains			96.2	
			Parallel to bedding plains			68	
5	Flexural Strength	Dry Conditions	Perpendicular to bedding plains	ASTM- C241/C241M-15	Mpa	8.39	
			Parallel to bedding plains			6.85	
		Wet conditions	Perpendicular to bedding plains			6.67	
			Parallel to bedding plains			5.31	
6	Modulus of Rupture	Dry Conditions	Perpendicular to bedding plains	ASTM- C880/880M-15	Mpa	13.84	
			Parallel to bedding plains			11.77	
		Wet conditions	Perpendicular to bedding plains			12.18	
			Parallel to bedding plains			10.2	
7	Abration resistance of stone subject to foot traffic				ASTM- C99/C-99M-15	Ha	62.05
8	Specular Gloss		Angle 20 degree	ASTM- D523-201		79.5	
			Angle 20 degree			84.8	
			Angle 20 degree			100.6	
9	Moh's Hardness						6 to 7
10	Impact Resistance test	Average Rupture height			Rupture Energy (W) (Joule)		5
11	Chemical Analysis	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	LOI	MgO	CaO	Al <sub>2</sub> O <sub>3</sub>
		77.5	11.34	0.24	Trace	1.26	4.46