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Lignostone® Technical data

	L I/2-E3	M I/2-E3	H I/2/30-E5	L II/2-E3	M II/2-E3	H II/2/30-E5	L X/2-E3	M
Density (g/cm ³)	0.95	1.23	>1.35	0.95	1.23	>1.35	0.95	
Flexural strength (psi) perpendicular (3 point support)	25,400	35,000	36,000	16,000	21,000	20,000	21,800	
Modulus of elasticity in flexure (psi) perpendicular (3 point support)	2.0 x 10 ⁶	3.2 x 10 ⁶	3.5 x 10 ⁶	1.5 x 10 ⁶	1.9 x 10 ⁶	2.4 x 10 ⁶	1.8 x 10 ⁶	2
Compressive strength (psi) perpendicular	14,500	20,000	24,700	30,500	35,500	40,000	14,500	
Compressive strength (psi) parallel	6,500	10,200	20,300	10,000	16,000	26,000	6,500	
Impact strength (kJ/m ²) perpendicular (Charpy)	45	48	55	25	30	20	35	
Impact strength (kJ/m ²) parallel (Charpy)	40	42	40	20	27	15	30	
Splitting resistance (lbf) parallel	630	650	900	400	600	830	600	
Ball-thrust Hardness 60 sec. (psi) perpendicular			29,700			29,700		
Tensile strength (psi) parallel	18,900	23,200	29,000	10,900	17,400	11,600	16,000	
Water absorption (%)			0.5			0.5		
Oil absorption (%)	25	7	» 0	25	7	» 0	25	
Coeffic. of linear expans. (10 ⁻⁶ /K) bet. 20° & 100°C along grain			5-15			5-15		
Thermal conductivity (W/m ² K)	0.2-0.3	0.2-0.3	0.2-0.3	0.2-0.3	0.2-0.3	0.2-0.3	0.2-0.3	
Operating temperatures (°C/°F) continuous	105/221	100/212	90/194	105/221	100/212	90/194	105/221	1
Operating temperatures (°C/°F) intermittent	140/284	140/284	90/184	140/284	140/284	90/194	140/284	1
Electric strength (kV/in) 20°C parallel	70	70	65	70	70	65	70	
Electric strength (kV/in) 90°C parallel	60	60	40	60	60	40	60	
Dielectric loss factor (tan delta) 20°C 50 Hz	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
Insulation resistance (M ohms)	10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁶	10 ⁶	
Comparative Tracking (V)	CT 100	CT 100	CT 100	CT 100	CT 100	CT 100	CT 500	