

YTZP & YTZP HIPed

Property	Units	YTZP	YTZP HIPed
Density	g/cm ³	6.02	6.08
Color	-	White	White or Gray
4-Pt Flexural Strength (MOR), 20° C	MPa	1240	1350
Elastic Modulus, 20° C	GPa	210	214
Compressive Strength, 20° C	MPa	2500	2580
Fracture Toughness, K(I c)	MPa m ^{1/2}	13.0	5
Thermal Conductivity	W/mK	2.2	2.18
Coef. of Thermal Expansion, 25-1000° C	1 X 10 ⁻⁶ /°C	10.3	10.7
Volume Resistivity, 25° C	ohm-cm	>10 ¹³	-
Dielectric Constant, 1 MHz	-	29	-
Dielectric Loss	-	.001	-
Water Absorption	-	-	NIL
Grain Size	µm	-	0.4
Loop Abrasion	mm ³	-	0.100
Hardness Vickers	kg/mm ²	1300	1660
Poisson Ratio	-	-	0.32
Maximum Material Use Limit	°C	-	1500