



ZIRCONIA TECHNICAL DATASHEET

Type 5 Acc. ISO6872 :2015

Chemical composition

Elements	Mass (percentage)
$ZrO_2 + HfO_2 + Y_2O_3$	$\geq 98,5\%$
Y_2O_3	$>4.5\%$ and $\leq 7.65\%$
HfO_2	$\leq 5.0\%$
Al_2O_3	$\leq 0.5\%$
Others Oxides	$\leq 1\%$

Mechanical characteristics

	Requirement	Typical values
Flexural strength [MPa]	>800	$>1\ 000$

Material characteristics

	Requirement	Typical values
Density [g/cm^3]	≥ 6	$> 6,035$
CTE – Coefficient of Thermal Expansion Between 20 to 500°C [$10^{-6} \cdot K^{-1}$]	-	10

Colors available (colors used as base to reach the shade guide Vita):

	Sina XT-T	Sina-ML	Sina-T	Sina-Z
Translucency	Zirconia with translucency gradient from 51% (incisal edge) to 44% (cervical edge)	Multi-Layer Zirconia with a translucency of 40%	Translucent zirconia with a translucency of 44%	Opaque zirconia with a translucency of 32%
Type A	A1 A2 A3 A3.5 A4	(A1-A2) A Light (A3-A4) A Dark	A1 A2 A3 A3.5 A4	A1 A2 A3 A3.5
Type B	B1 B2 B3 B4	(B1-B2) B Light (B3-B4) B Dark	B1 B2 B3 B4	B2
Type C	C1 C2 C3 C4	(C1-C2) C Light (C3-C4) C Dark	C1 C2 C3 C4	C2
Type D	D2 D3 D4	(D2-D4) D Light	D2 D3 D4	D2
Other	BLEACH OM1			White