



FEBRUARY 2018

LABORATORY INFORMATION

SINA ML TECHNICAL DATASHEET

Chemical composition

ZrO ₂ / HfO ₂ Zirconium dioxide	Y ₂ O ₃ Yttrium oxide	Al ₂ O ₃ Aluminum oxide	Other oxides
94.1 – 94.65%	4.65 – 5.95%	<0.4%	<0.7%

Mechanical characteristics

Flexural strength	[MPa]	>1 150
Young's modulus	[GPa]	210
Vickers Hardness	[HV]	1250

Material characteristics

Density	[g/cm ³]	>6.035
CTE – Coefficient of Thermal Expansion 20 – 500°C	[10 ⁻⁶ /K]	10
Translucency	-	40%

Colours available

(A1 – A2)	A Light
(A3 – A4)	A Dark
(B1 – B2)	B Light
(B3 – B4)	B Dark
(C1 – C2)	C Light
(C3 – C4)	C Dark
(D2 – D4)	D Light