

FUNCTIONAL EXPLORE



- Suitable for all indications

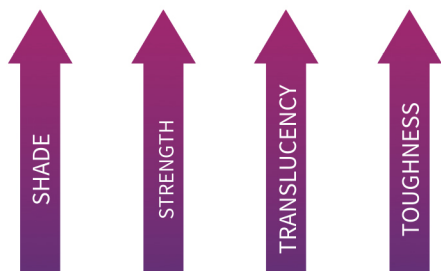
• Physical Characteristics

Density after sintering	$\geq 6.0 \text{ g/cm}^3$
CTE(25-500°C)	$(10.5 \pm 1.0) \times 10^{-6} \text{ K}^{-1}$
Accelerated aging surface monoclinic phase content	<5%
Chemical solubility after sintering	<100 $\mu\text{g/cm}^2$
Radioactivity	<0.1Bq/g
Sintering temperature	1430-1550°C recommend 1480°C

• Chemical Composition

ZrO ₂ +HfO ₂ +Y ₂ O ₃	>96.5%
Y ₂ O ₃	5.8%-9.7%
Al ₂ O ₃	<0.5%
Fe ₂ O ₃	<0.5%
Er ₂ O ₃	<2.0%
Others oxides	<0.5%

Light 1027MPa 46.6% 4.3MPa·m^{1/2}



Dark 1300MPa 43% 5.1MPa·m^{1/2}

