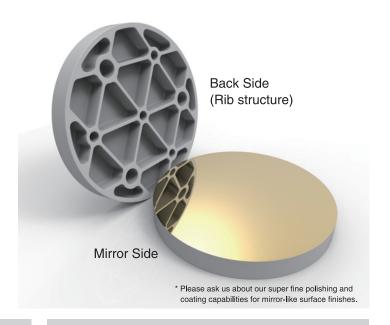


Low Thermal Expansion Ceramic Mirror

Enabling High Precision and Light Weight with High Rigidity

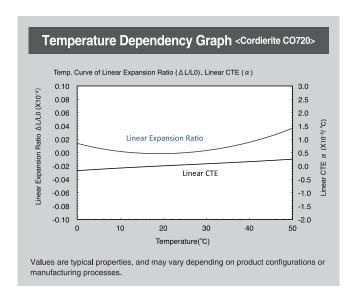
Characteristics

- Minimal temperature deformation due to dense cordierite ceramic with extremely low thermal expansion rate
- Approx. 70% weight reduction
 when compared to low CTE glass
 (* according to our research) via slim ribbed
 structure design with high rigidity
- Rapid process time even for complex designs due to good machinability property.

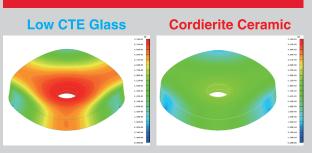


Material Characteristics comparison with Low CTE Glass

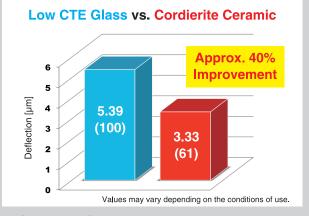
Item	Unit	Low CTE Glass	Ceramic < Cordierite CO720 >
Density	kg/m³	2.53	2.55
CTE	ppm/K	0.02	0.02
Elasticity Modulus	GPa	90	144
Specific Rigidity	_	36	56



Displacement Map



3-point Supported Deflection



Comparison Conditions

- Product Size : Φ1020 x 120mm (Rib Structure)
- Supported Points : Outside 3 Points
- · Load : Self-weight