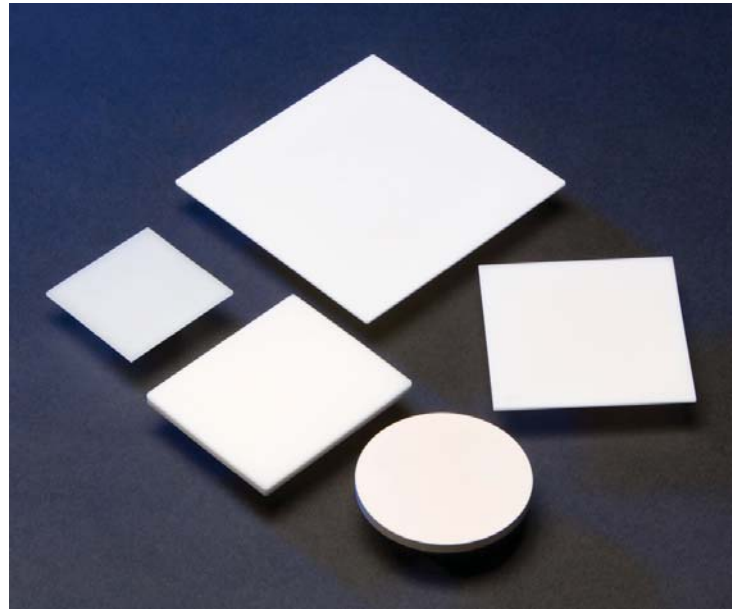
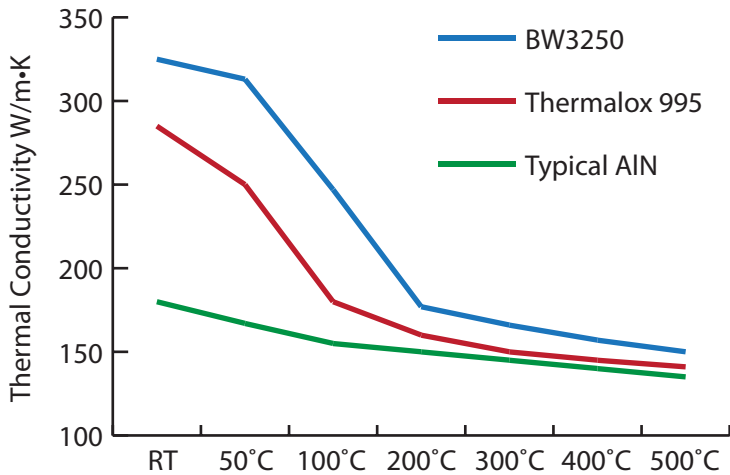


BW3250® Beryllia Ceramic With Exceptional Thermal Conductivity

With a unique combination of electrical insulating properties and high thermal conductivity, BW3250 beryllium oxide is the perfect choice for high-power applications.



Property	Test Method	Unit of Measure	BW3250®
Surface Finish	Profilometer	As-fired (µin CLA) Machined (µin CLA) Polished (µin CLA)	8 25-63 2 max
Thermal Conductivity	Laser Flash	W/m·K (at RT)	325
Coefficient of Thermal Expansion	ASTM E228-95	10 ⁻⁶ /°C (RT to 1000°C)	9.0
Specific Heat	ASTM C351-92b	cal/g°C	0.25
Flexural Strength (MOR)	ASTM F417-78	kpsi	32
Dielectric Constant	ASTM D150-95	1 MHz at RT	6.76
	ASTM D2520-95	10 GHz at RT	6.67
Dissipation Factor	ASTM D150-95	1 MHz at RT	0.0004
	ASTM D2520-95	10 GHz at RT	0.0004
Volume Resistivity	ASTM D257-93	Ω-cm (at RT)	>10 ¹⁵
AC Dielectric Strength	ASTM D118-86	V/mil (6.35mm)	230

Health & Safety Note:

Handling beryllium oxide ceramics in solid form poses no significant health risk. Like many industrial materials, beryllium-containing materials may pose a health risk if recommended safe handling practices are not followed. Inhalation of airborne beryllium may cause a serious lung disorder in susceptible individuals. The Occupational Safety and Health Administration (OSHA) has set mandatory limits on occupational respiratory exposures. Read and follow the guidance set forth in the Safety Data Sheet (SDS) before working with this material. For additional information on safe handling practices or technical data on beryllium, contact Materion Ceramics at +1 520.746.0251