

BAK50 ALUMINOSILICATE

BAK50 refers to Barium Crown Aluminosilicate

TYPICAL PROPERTIES

Thermal expansion (20-300° C) α	= 4.6×10^{-6} K
Transformation Temperature Tg	= 629° C
Strain Point Tc	= N/A
Softening Temperature Td	= 820° C
Thermal Shock Δ	= N/A
Bending Strength Mpa	= N/A
Composition (wt %)	
	SiO ₂ ~ 40-50
	Al ₂ O ₃ ~ 10-20
	B ₂ O ₃ ~ 1-10
	ZnO ₂ ~ 10-20
	BaO ~ 10-20
	CaO ~ 1-10
Co-efficient of expansion a 20 / 300	4.6×10^{-6}
Hydrolytic Resistance (DIN ISO 719)	Class 1
Acid Resistance (DIN 12116)	Class 3
Alkali Resistance (DIN ISO 695)	Class 3
Values for Toughened Product	
Max temperature	375 ° C / 713 ° F
Thermal shock DIN ISO 718	Δ 265° C
Surface compressive stress	100 - 140 N/mm ²