Yttria-stabilized Zirconia Sheet (5% Yttria)

5% yttria?stabilized zirconia sheet: strong, tough, thermal?shock resistant ceramic sheet for thermal barriers, wear plates, liners, semiconductor handling, and high?temperature studies; supports coatings and ceramic?composite fabrication. **SKU:** 1000036886-group
Product Code: ZR61-SH-000101

Material Properties for Ceramics

Thermal Properties

Element	Value
Melting point(C)	2700
Upper continuous use temperature(C)	2200
Specific heat(J K?¹ kg?¹)	400-500@25°C
Thermal conductivity(W m?¹ K?¹)	2.5@20°C
Coefficient of thermal expansion(x10?? K?¹)	10@20-1000°C

Physical Properties

Element	Value
Density(gcm?³)	5.9

Mechanical Properties

Element	Value
Tensile modulus(GPa)	200
Hardness - Vickers(kgf mm?²)	1250
Tensile strength(MPa)	300-600

Pultrusions

Element	Value
Compressive strength(MPa)	2000