

Titanium Dioxide Single Crystal

Formula: TiO₂ 99.6%

Diameter: 8mm

Orientation: -111

Surface Finish: Polished On Both Sides

Thickness: 1mm

CAS Number: 13463-67-7

UOM Code: 976-671-28

SKU: 1000216947-group

Product Code: TI60-SC-000108

Material Properties for Compounds

Chemical Resistance

Element	Value
Acids - concentrated	Fair
Acids - dilute	Good
Alkalis	Poor
Metals	Poor

Electrical Properties

Element	Value
Dielectric constant	80-100
Volume resistivity(Ohmcm)	10 ¹³ -10 ¹⁷ @25

Physical Properties

Element	Value
Apparent porosity(%)	0
Density(gcm ³)	4.05

Thermal Properties

Element	Value
Melting point(C)	1850

Element	Value
Thermal conductivity(W m ⁻¹ K ⁻¹)	2.5-5@20°C
Coefficient of thermal expansion(x10 ⁻⁶ K ⁻¹)	8-10@20-1000°C

Mechanical Properties

Element	Value
Tensile modulus(GPa)	250-300
Hardness - Vickers(kgf mm ⁻²)	980
Tensile strength(MPa)	350

Pultrusions

Element	Value
Compressive strength(MPa)	800-1000