

# Titanium Dioxide Powder

**Formula:** TiO<sub>2</sub> 99.6%

**Maximum Particle Size:** 45µm

**Weight:** 500g

**CAS Number:** 13463-67-7

**UOM Code:** 197-608-67

**SKU:** 1000079148-group

**Product Code:** TI60-PD-000110

## 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 <sup>13</sup> -10 <sup>17</sup> @25

### Physical Properties

Element	Value
Apparent porosity( % )	0
Density( gcm <sup>3</sup> )	4.05

### Thermal Properties

Element	Value
Melting point( C )	1850
Thermal conductivity( W m <sup>-1</sup> K <sup>-1</sup> )	2.5-5@20°C
Coefficient of thermal expansion( x10 <sup>-6</sup> K <sup>-1</sup> )	8-10@20-1000°C

## **Mechanical Properties**

<b>Element</b>	<b>Value</b>
Tensile modulus( GPa )	250-300
Hardness - Vickers( kgf mm <sup>2</sup> )	980
Tensile strength( MPa )	350

## **Pultrusions**

<b>Element</b>	<b>Value</b>
Compressive strength( MPa )	800-1000