# Titanium Dioxide Powder

Titanium dioxide powder with high refractive index, UV resistance, and photocatalytic activity for pigments, coatings, self?cleaning surfaces, and solar/photoelectrochemical devices. **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 ) | $10^{13}$-$10^{1}$?@25 |

### Physical Properties

| Element | Value |
|---|---|
| Apparent porosity( % ) | 0 |
| Density( gcm?$^{3}$ ) | 4.05 |

### Thermal Properties

| Element | Value |
|---|---|
| Melting point( C ) | 1850 |
| Thermal conductivity( W m?$^{1}$ K?$^{1}$ ) | 2.5-5@20°C |
| Coefficient of thermal expansion( x10?? 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 |