

CNC Ceramics

SUITABLE FOR CNC MACHINING



MATERIAL NAME

CNC Ceramics

COLOR

White, Black

PROCESS

CNC

PRODUCT DESCRIPTION

CNC Ceramic materials refer to ceramic materials precisely machined by CNC machining technology (such as CNC cutting, engraving, grinding). Because of its high hardness, high wear resistance, high temperature stability and excellent chemical inertness, this kind of material is widely used in aerospace, electronics, medical, semiconductor and precision machinery and other fields.

TYPICAL APPLICATIONS

- Dental implants and dentures
- IC package substrate
- Production of thermal barrier components

PRODUCT SAFETY

- Touching the finished ceramic block is harmless, but avoid direct contact with dust. Ceramic parts after CNC machining may have sharp edges, and goggles, gloves and dust masks are used during machining.

PRODUCT DELIVERY & WAREHOUSING

- **STORAGE**

Storage should be dry, away from light, temperature storage, to avoid humidity, high temperature and chemical corrosion.

- **TRANSPORTATION**

Shock-proof, moisture-proof, and anti-static during transportation, especially for precision parts and hygroscopic materials, should be sealed and packed with buffer materials.

MATERIALS WE SUPPORT:

Code	Color	Density (g/cm ³)	Hardness	Tensile Strength, Yield(Mpa)	Elongation at Break (%)	Heat Deflection Temperature (°C)
ZrO2	White/Black/Beige	6.05-6.07	1000 ~1500 HB	200~400	0.1	1700~2200
Al2O3	White	3.7-3.97	1000 ~2000 HB	200~450	0.1~0.3	1500~1700

Tips: Want to explore a wider range of materials? Check out <https://www.unionfab.com/materials>



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