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**CREATING QUALITY STANDARDS FOR THE INDUSTRY**

## Ceramic Injection Molding

### Precision Injection Molding

#### **WM-ZTA-FB** **Al<sub>2</sub>O<sub>3</sub> (99.8%) Stabilized Zirconia Ceramic**

WM-ZTA-FB is a Al<sub>2</sub>O<sub>3</sub> (99.8%) Stabilized Zirconia Ceramic. Areas where this material is used in: demanding applications where the strength of Alumina is insufficient. Maximum temperature of use is 400°C.

#### Physical Properties

Color	-	White
Sintered Density	-	4.20 g/cm <sup>3</sup>
Bending Strength	-	350-500 MPa
Compressive Strength	-	2900 MPa
Fracture Toughness (NB)	-	7.0 MPa·√m
Hardness	-	1750 (HV)
Thermal Conductivity	-	15.0 (W/m*K)

#### Chemical Properties

ZrO <sub>2</sub>	-	18.7-18.9 wt%
Y <sub>2</sub> O <sub>3</sub>	-	0.9-1.1 wt%
Al <sub>2</sub> O <sub>3</sub>	-	79.0-81.0 wt%

These numbers are typical values for the properties listed. Depending on the end shape and environment, these values may be slightly different. Any questions and or for recommendations on how to design your Ceramic Injection Molded Parts, please contact our Design Engineers at Wunder Mold.

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