

Data Sheet	
Product	Black Zirconium Oxide ZrO ₂ plus processing additives
Ceramic powder	ZrO ₂ , 94.5 %, partly Y ₂ O ₃ - stabilized TZ-Black (Tosoh Corp.)
Appearance	Grey granulate material
Product description	Injection moulding feedstock for production of sintered ceramic components
Theoretical density	6.0cm ³
Shrinkage approx.	22 % corresponding to
Mold factor approx.	1.28
Processing temperature	From feeding zone 159 °C to nozzle tip 162 °C
Mold temperature	62 °C
Debinding	2 step water & thermal Particular conditions are depending on part dimension and design.
Sintering temperature	1400-1500 °C in air
Storage and Lifetime	Product can be used for approx. 3 months after opening if stored dry at room temperature. Vessel has to be closed airtight <u>thoroughly</u> after feedstock withdrawal.
Manufacturer	INMATEC Technologies GmbH Heerstrassenbenden 10 D- 53359 Rheinbach

Advice: Due to the abrasive behaviour of ceramic powder we strongly recommend production with cylinder, screw and mold made from hard metal only.