

3DMIX TECHNICAL DATASHEET

ZIRCONIA

Properties

- ⊗ Excellent mechanical properties
- ⊗ Chemical inertness
- ⊗ High hardness

Applications

- ⊗ Jewelry
- ⊗ Watches
- ⊗ Biomedical devices
- ⊗ Biomedical implants
- ⊗ Electronic equipment

PASTE



	Norm	Value	Symbol
Grade		Zr700	
Sintered material			
Density (g/cm ³)	NF EN 623-2	5,97	ρ
Particle size (μm)	-	0,1-0,8	d
Microstructure	-		
Mechanical properties			
Vickers hardness (GPa)	NF EN 843-4	12,6	HV1
Young's modulus (GPa)	NF EN 843-2	209,4	E
Shear modulus (Gpa)	NF EN 843-2	79,8	G
Poisson's ratio	NF EN 843-2	0,312	ν
Flexural strength (Mpa)	NF EN 843-1	1088	σ _r
Compressive strength (Mpa)	ISO 17162:2014	2070	σ _c
Thermal expansion coefficient (K ⁻¹)	-	12,4	α

Non contractual data for reference only – V16062016

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