



Zetamix Porcelain Datasheet

PRODUCT DESCRIPTION

Zetamix Porcelain is a filament used for 3D printing. The binders mixed with porcelain powder enables to have a flexible and resistant filament usable with classical FFF printers (Fused Filament Fabrication). Printed parts need to be debinded and sintered.

Diameter available: 1,75mm

Postprocess : chemical debinding and sintering

IDENTIFICATION

Trade name	Zetamix Porcelain
Chemical name of raw material	Porcelain
Binding proportion (vol) %	45
Binding proportion (mass) %	25
Porcelain proportion (vol) %	55
Porcelain proportion (mass) %	75

PRINTING AND SINTERING RECOMMANDATIONS

Printing temperature	120°C – 160°C
Debinding	Acetone
Sintering temperature	1250°C, under air
Shrinkage	x,y = 13.8% ±1% / z = 26.4% ±1%
Density	98-99%

TYPICAL PROPERTIES OF THE FILAMENT

Specific Gravity [g.cm ⁻³]	1.90
Melt Flow Index [g/10(min)] (@140°C, 5kg, half-die)	20
Melt Volume Rate [cm ³ /10(min)]	10.5

Disclaimer : The results presented above are for information and do not constitute a legally binding Material Safety Data sheet (MSDS). Moreover, values are significantly dependent on printing and debinding parameters, operators experience and surrounding conditions. Any descriptions, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product.