



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	$x,y = 13.8\% \pm 1\% / z = 26.4\% \pm 1\%$
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 parametters , 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.