



ZELTA3D

Prepared at 23 Dec 2022

## SLA DETAILED PLASTIC PROTOTYPING MATERIAL DATASHEET

## Description

Our Detailed Plastic is a rigid opaque prototyping material. It is recommended to be used for design checks, fit test, visual prototype, figurines. This material is generally suitable for prototype that does not require demanding or thermal properties. Our Detailed plastic is formulated to be slightly more durable and heat resistant than standard resin material out there.

## Technical Data

<b>Material Name</b>	Detailed Plastic	
<b>Appearance</b>	Opaque Ivory White	
<b>Viscosity</b>	~1000 cps @ 30°C	
<b>Density</b>	~1.17 g/cm <sup>3</sup> @ 25°C	
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<b>Test Method</b>	<b>Property</b>	<b>Metric</b>
D638M	Tensile Strength at Yield	50 MPa
D638M	Tensile Strength at Break	32.8 MPa
D638M	Tensile Modulus	2500 MPa
D638M	Elongation at Break	10 %
D638M	Elongation at Yield	3%
D638M	Poisson's Ratio	0.42
D790M	Flexural Strength	69 MPa
D2240	Flexural Modulus	2,400 MPa
D256A	Izod Impact (Notched)	50 J/m
D2240	Hardness (Shore D)	80
D149-97A	Dielectric Strength	15.2 kV/mm
D150-98	Dielectric Constant 60 Hz	4.7
D150-98	Dielectric Constant 1 KHz	4.0
D150-98	Dielectric Constant 1 MHz	3.6
D648	HDT @ 0.46 MPa (66 psi)	56 °C
D648	HDT @ 1.81 MPa (264 psi)	50 °C