



ZELTA3D

Prepared at 23 Dec 2023

## SLA 4K HD HIGH DETAILED PLASTIC MATERIAL DATASHEET

## Description

Our High Detailed Plastic is probably the highest resolution 3D Printing rigid plastic material. It is recommended to be used for design checks, functional prototype, fit test, cosmetic demanding prototypes, figurines, miniatures. This material is generally suitable for highly intricate prototypes. This material is ideal to replace injection moulded ABS (Black) or Acrylic (Ivory White, Semi Clear) parts.



## Technical Data

<b>Material Name</b>	High Detailed Plastic
<b>Appearance</b>	Opaque Black, Opaque Ivory White, Semi Clear
<b>Surface</b>	Matte Smooth
<b>Density</b>	~1.2 g/cm <sup>3</sup>

<b>Material</b>	<b>Ivory White</b>	<b>Semi Clear</b>	<b>Black</b>
Plastic Type (Close to)	Acrylic	Acrylic	ABS
D638 Tensile Strength at Yield	47 MPa	47 MPa	60 MPa
D638 Tensile Strength at Break	60 MPa	60 MPa	62 MPa
D638 Tensile Modulus	2800 MPa	2800 MPa	2600 MPa
D638 Elongation at Break	7 %	7 %	10%
D638 Elongation at Yield	3%	3%	10%
D2240 Flexural Modulus	2,200 MPa	2,200 MPa	2,300 MPa
D256A Izod Impact (Notched)	25 J/m	25 J/m	21 J/m
D2240 Hardness (Shore D)	85	85	83
HDT @ 0.46 MPa (66 psi)	70 °C	70 °C	87 °C
D648 HDT @ 1.81 MPa (264 psi)	58 °C	58 °C	64 °C
Flammability	-	-	UL 94 - HB
Biocompatibility	-	-	ISO 10993