



ZELTA3D

Prepared at 23 Dec 2022

SLA 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.



Technical Data

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

Material	Ivory White	Semi Clear	Black	Grey
Plastic Type (Close to)	ABS PC	Rigid Plastic	Rigid Plastic	ABS
D638 Tensile Strength at Yield	69 MPa	47 MPa	47 MPa	61 MPa
D638 Tensile Strength at Break	105 MPa	60 MPa	60 MPa	61 MPa
D638 Tensile Modulus	4100 MPa	2800 MPa	2800 MPa	2800 MPa
D638 Elongation at Break	5.3 %	7 %	7%	13%
D638 Elongation at Yield	3%	3%	3%	13%
D2240 Flexural Modulus	3,400 MPa	2,200 MPa	2,200 MPa	2,200 MPa
D256A Izod Impact (Notched)	23 J/m	25 J/m	25 J/m	18 J/m
D2240 Hardness (Shore D)	85	85	85	85
HDT @ 0.46 MPa (66 psi)	77 °C	70 °C	70 °C	77 °C
D648 HDT @ 1.81 MPa (264 psi)	60 °C	58 °C	58 °C	60 °C