

Material Data Sheet



ABS

Description:

Acrylnitril-Butadien-Styrol (ABS) is a thermoplastic material, with a high stiffness, toughness and strenght. It is not so easy to print like PLA and we recommend a heated enclosure.

Storage:

Store at room temperature, out of direct heat and sunlight and in a dry place.

Identification:

Name	ABS
Chemical Name	Acrylnitril-Butadien-Styrol
Usage	FDM 3D Printing
Manufacturer	Material 4 Print GmbH & Co. KG, Germany

Properties:

Test	Value	Method
Specific Gravity	1,04 g/cm ³	ISO 1133
Tensile Elongation	20%	ISO 527
Tensile Strength at break	32 MPa	ISO 527
Flexural Modulus	1,9 Gpa	ISO 178
Melting Point	210 - 240°C	
Heat Distortion Temperature	81°C	ISO 75/A
Flammability	HB	UL94

Print Settings:

Nozzle Temperature	220-250 °C
Bed Temperature	90-110°C

Colors (ca. RAL) :

● Staubgrau (7037)	● Tiefschwarz (9005)
● Graualuminium (9007)	○ Signalweiß (9003)
● Anthrazitsilber (7015)	● Natur

Certificate:



These data were are taken from the raw material manufacturer.