

Material Data Sheet



ASA

Description:

Acrylester-Styrol-Acrylnitril (ASA) is a thermoplastic material, with similar properties as ABS. ASA is extremely weather-resistant and has very good mechanical properties. 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	ASA
Chemical Name	Acrylester-Styrol-Acrylnitril
Usage	FDM 3D Printing
Manufacturer	Material 4 Print GmbH & Co. KG, Germany

Properties:

Test	Value	Method
Specific Gravity	1,06 g/cm ³	DIN EN ISO 1183
Elongation at Break	20%	DIN EN ISO 527
Tensile Strength	50 MPa	DIN EN ISO 527
Flexural Modulus	2300 MPa	DIN EN ISO 178
Melting Point	240 - 260°C	
Heat Distortion Temperature	84°C	DIN EN ISO 75/1
Flammability	HB	UL94

Print Settings:

Nozzle Temperature	230-250°C
Bed Temperature	90-110°C

Colors (ca. RAL) :

- Tiefschwarz (9005)
- Signalweiß (9003)
- Eisengrau (7011)
- Staubgrau (7037)
- Natur

Certificate:



These data were are taken from the raw material manufacturer.