

# Material Data Sheet



## PMMA

### Description:

Polymethylmethacrylat (PMMA) is a thermoplastic Material, also known as plexiglass or acrylglas. PMMA is known for transparency and has an extremely high rigidity. Also are PMMA objects weatherproof. 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	PMMA
Chemical Name	Polymethylmethacrylat
Usage	FDM 3D Printing
Manufacturer	Material 4 Print GmbH & Co. KG, Germany

#### Properties:

Test	Value	Method
Specific Gravity	1,17 g/cm <sup>3</sup>	ISO 1183
Elongation at Break	49%	ISO 527
Tensile Strength	35 MPa	ISO 527
Flexural Modulus	1.8 GPa	ISO 178
Melting Point	200 - 230 °C	-
Heat Distortion Temperature	77 °C	ISO 75
Flammability	HB	UL-94

#### Print Settings:

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

#### Colors (ca. RAL) :

- Transparent
- Tiefschwarz (9005)

#### Certificate:



These data were taken from the raw material manufacturer.