



## Technical Data Sheet

Product name: TPU Matte

Version: 1.0

Date: 12.2025

### Dimensions

Description	Typical value	Test method
1,75 mm	± 0.05 mm	± 0.05 mm
2,85 mm	± 0,10 mm	± 0,10 mm

### MATERIAL PROPERTIES

Description	Typical value	Test method
Density	1.19 g/cm <sup>3</sup>	ISO 1183,GB/T 1033
Meltindex (MFR)	10.14 g/10min (210 °C/2.16kg)	ISO 1133,GB/T 3682
Melting temperature	186 °C	DSC,10°C/min
Vicatsoftening temperature	90 °C	ISO306,GB/T1633
Heat deflection temperature	40 °C	ISO 75 0.45MPa
Tensile strength at Yield	11 MPa	ISO 527, GB/T 1040
Elongation at Break	>500%	ISO 527, GB/T 1040



<b>Flexural Modulus</b>	N/A	ISO 527, GB/T 9341
<b>Flexural strength</b>	N/A	ISO 178, GB/T 9341
<b>Impact strength</b>	17 kJ/m <sup>2</sup> (not cut off)	ISO 179, GB/T 1043
<b>Layer Adhesion (Impact Strength - Z)</b>	15.4 kJ/m <sup>2</sup> (not cut off)	ISO 179, GB/T 1043
<b>Moisture absorption</b>	0.85%	ISO 62 23°C , 50% RH

#### **GUIDELINE FOR PRINT SETTINGS**

<b>Description</b>	<b>Typical value</b>
<b>Printing temperature</b>	220 – 240 °C
<b>Build Plate Compatibility</b>	BuildTak®, Glass, BlueTape, PEI
<b>Bed Temperature</b>	35-65°C (Glue Recommended)
<b>Cooling fan</b>	100%
<b>Drying Settings</b>	70°C , 8h
<b>Printing speed</b>	<200 mm/s
<b>AMS Compatibility</b>	NO
<b>Raftseparationdistance</b>	0.5-1.5mm
<b>Retractionspeed</b>	15-30mm/s
<b>Hotend Compatibility</b>	0.4-0.8mm nozzle, hardened steel, stainless steel.
<b>Environmentaltemperature</b>	25°C-45°C



**Packaging:**

All spools are sealed and packed with silica gel to avoid humidity.

**Additional info:**

The typical values presented in this data sheet are intended for reference and comparison purposes only. They should not be used for design specifications or quality control purposes. Actual values may vary significantly with printing conditions. End- use performance of printed parts depends not only on materials, but also on part design, environmental conditions, printing conditions, etc. Product specifications are subject to change without notice.

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**Storage:** Cool and dry (15-25°C) and away from UV light. This enhances the shelf life significantly.