



TECHNICAL DATA SHEET

FLEX MEDIUM MATT

1. DESCRIPTION

FLEX Medium MATT is another member of Extruder's TPU range and is characterised by the same outstanding properties as FLEX Medium, but with a matt surface. This property gives the prints an elegant and high-quality appearance that is ideal for aesthetically demanding applications.

2. FEATURES

- Matte surface
- Shore hardness A95
- High flexibility and elasticity
- Very impact and break resistant
- Extreme layer adhesion

3. PROPERTIES

TEST	METHOD	UNIT	VALUE	PRINT SETTINGS	
Shore hardness A	DIN ISO 7619-1	-	-	Nozzle	220-250°C
Shore hardness D	DIN ISO 7619-1	-	50	Heatbed	50°C
Tensile strength at break	DIN 53504, S1	MPa	52	Adhesive	not required
Tensile strength	DIN 53504, S2	N/mm ²	470	Speed	max 50 mm/s
Elongation at break	DIN 53504, S2	%	6.9	Cooling	60-100 %
Stress at 10% elongation	DIN 53504, S1	MPa	15.1	Enclosed Space	no
Stress at 300% elongation	DIN 53504, S1	MPa	29	Hardened Nozzle	no
Compression set (24h; 70°C)	DIN ISO 815-1, method A	%	47	Max. Volumetric Speed	12 mm ³ /s
Compression set (24h; 70°C)	DIN ISO 815-1, method C	%	30	Recommended settings for printers with a 0.4mm Nozzle. Max. 50% layerheight. Optimal print settings may vary between different printers and also depend on environmental factors.	
Compression set (72h; 23°C)	DIN ISO 815-1	%	24		
Abrasion loss	ISO 4649, A	mm ³	30		
Rebound resilience	ISO 4662	%	33		
Tear propagation resistance	ISO 34-1	kN/m	110		
Flexural modulus	ISO 178	MPa	-		
Tensile storage modulus 20°C	ISO 6721-1,-4	MPa	160		
Density	ISO 1183-1	g/cm ³	1.19		

*Temperature resistance tested at a minimum wall thickness of 4 mm.

4. CERTIFICATIONS & ADDITIONAL INFORMATION



Certifications depend on colors in final product. More info in the additional information sheet.

5. STORAGE AND SHELF LIFE

Store in a dry room at room temperature (18-27°C / 65-80°F). Keep out of direct heat and sunlight.

When stored correctly, this material has a shelf life of 2 years.

Additional info in our regulatory, additional information and chemical resistance data sheets.