Matter Industries Inc.
Unit 104 & 105, Building B
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Victoria, BC V9C 0S2

Innovating Tomorrow's Materials

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Technical Data Sheet: Performance TPU 95A

Description: Matter3D Performance TPU 95A is a high-performance flexible filament engineered for applications requiring an excellent balance of elasticity, strength, toughness, and durability. Manufactured using premium polyester-based thermoplastic polyurethane, this material offers excellent abrasion resistance, tear strength, and flexibility while maintaining reliable layer adhesion and dimensional stability.

With a Shore hardness of 95A, Performance TPU provides the flexibility needed for impact-resistant components while remaining sufficiently rigid for consistent extrusion and reliable 3D printing. Its excellent mechanical properties make it ideal for protective covers, flexible fixtures, gaskets, vibration-dampening components, industrial prototypes, and functional end-use parts requiring repeated bending and mechanical durability.

Physical Properties	Standard	Units	Recorded Value
Density	ASTM D792	g/mL	1.2

Mechanical Properties	Standard	Unit	Recorded Value
Tensile Strength (Break)	ASTM D638	MPa	36
Elongation at break	ASTM D638	%	450
Flexural Strength	ASTM D790	MPa	N/A
Flexural Modulus	ASTM D790	MPa	N/A
IZOD Impact, charpy	ASTM D256	J/m	No Break

Thermal Properties	Standard	Unit	Recorded Value
Glass Transition Temp. Tg	DSC	°C	-35
Heat Deflection Temperature at 1.8 MPa	ASTM D648	°C	55

Electrical Properties	Standard	Unit	Recorded Value
Surface Resistivity	ASTM D257	Ω/sq	1×10^{12}

Printer Settings:
Nozzle: 235–255 °C
Bed: 35 °C
Cooling fan: 10-30%

Notice:
Typical values, not specifications. Performance varies with printer, part geometry, and settings. Users must verify fitness for purpose and comply with regulations. Matter Industries Inc. provides no warranties and assumes no liability.

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