Matter Industries Inc.
Unit 104 - 106, Building B
650 Allandale Road
Victoria, BC V9C 0S2

Innovating Tomorrow's Materials

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Technical Data Sheet: PETg Matte Copolyester

Description: Matter3D Matte PETG Copolyester combines the strength, durability, and excellent layer adhesion of traditional PETG with a smooth, low-gloss surface finish. Formulated with a finely dispersed matting agent, this material produces a uniform matte appearance while reducing the visibility of layer lines and surface imperfections. This formulation provides increased rigidity and dimensional stability while maintaining good impact resistance, chemical resistance, and reliable printability. Its low shrinkage and reduced warpage make it an excellent choice for functional prototypes, architectural models, enclosures, jigs, fixtures, and decorative components requiring both durability and a professional matte finish.

Physical Properties	Standard	Units	Recorded Value
Density	ISO 1183	g/mL	1.34

Mechanical Properties	Standard	Unit	Recorded Value
Tensile Strength, Break	ISO 527	MPa	55
Elongation at break	ISO 527	%	31
Flexural Strength	ISO 178	MPa	86
Flexural Modulus	ISO 178	MPa	2944
IZOD Impact, charpy	GB/T 1843	kJ/m^2	7

Thermal Properties	Standard	Unit	Recorded Value
Glass Transition Temp. Tg	DSC	°C	73
Heat Deflection Temperature at 0.45 MPa	ISO 75	°C	85

Electrical Properties	Standard	Unit	Recorded Value
Surface Resistance	ASTM D257	Ω / sq	$>10^{13}$

Printer Settings:
Extruder Temperature: 230-245°C
Build Plate Temperature: 75°C
Fan speed: 0-20%
Print Speed: < 1000 mm/s

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.