



High-Performance Material with Excellent Toughness and Dimensional Stability

Designed for high-speed 3D printing, this material provides a uniform matte finish, greater durability than PLA, and excellent print quality with dimensional stability. Ideal for strong, long-lasting functional parts.



Main Features

- ✓ Strong, durable, and easy to print
- ✓ Ideal for long-term functional parts
- ✓ Uniform matte surface finish without glossy areas
- Reduces common issues like stringing and blobs

Applications

- ✓ Mechanical and functional parts under stress
- ✓ Projects requiring long-term durability
- ▼ Fast-printed technical components
- ✓ Moisture-resistant prototypes



Technical Data

PHYSICAL PROPERTIES	METHOD	VALUE
Density	ISO 1183	1.28 g/cm³
Melt Index (210 °C, 2.16 kg)	-	28.2 ± 2.7 g/10 min
Melting Temperature	DSC (10 °C/min)	214 °C
Glass Transition Temperature	DSC (10 °C/min)	66 °C
Vicat Softening Temperature	ISO 306	70 °C
Heat Deflection Temperature (1.8 MPa)	ISO 75	62 °C
Heat Deflection Temperature (0.45 MPa)	ISO 75	69 °C
Saturated Water Absorption Rate	25 °C, 55% RH	0.40 %

MECHANICAL PROPERTIES	METHOD	VALUE
Young's Modulus (X-Y)	ISO 527	1810 ± 190 MPa
Young's Modulus (Z)	ISO 527	1540 ± 130 MPa
Tensile Strength (X-Y)	ISO 527	34 ± 4 MPa
Tensile Strength (Z)	ISO 527	23 ± 4 MPa
Elongation at Break (X-Y)	ISO 527	8.6 ± 1.2 %
Elongation at Break (Z)	ISO 527	5.1 ± 0.8 %
Flexural Modulus (X-Y)	ISO 178	2050 ± 120 MPa
Flexural Modulus (Z)	ISO 178	1810 ± 140 MPa
Flexural Strength (X-Y)	ISO 178	64 ± 3 MPa
Flexural Strength (Z)	ISO 178	48 ± 4 MPa
Impact Strength (X-Y)	ISO 179	31.5 ± 2.2 kJ/m²
Impact Strength (notched)	ISO 179	6.2 ± 1.8 kJ/m²
Impact Strength (Z)	ISO 179	10.6 ± 1.2 kJ/m²



OTHER PHYSICAL AND CHEMICAL PROPERTIES	VALUE	
Odor	Odorless	
Composition	PETG	
Skin Hazards	None	
Chemical Stability	Stable under normal conditions	
Solubility in Water	Insoluble	
Acid Resistance	Not resistant	
Alkali Resistance	Not resistant	
Organic Solvent Resistance	Limited resistance to some solvents	
Oil and Grease Resistance	Resistant to most oils and greases	
Flammability	Flammable	
Combustion Products	Water and carbon oxides	
Odor of Combustion Products	Odorless	

