Technical datasheet

PETG

Mechanical properties	Typical Value	Test Method	Test Condition
Tensile strength at yield	50 MPa	ISO 527	50 mm/min
Tensile strength at break	26 MPa	ISO 527	50 mm/min
Elongation at yield	-	ISO 527	50 mm/min
Elongation at break	120 %	ISO 527	50 mm/min
Tensile modulus	1900 MPa	ISO 527	50 mm/min
Flexural strength	71 MPa	ISO 178	
Flexural modulus	2150 MPa	ISO 178	
Hardness	75 Shore D	ISO 7619	
Charpy impact strength	-	ISO 179	unnotched
Abrasion resistance	-		

Thermal properties	Typical Value	Test Method	Test Condition
Melting temperature	-	ISO 11357	
Glass transition temperature	-	ISO 11357	
Melt flow index	-	ISO 1133	220 °C, 10 kg
Vicat softening temperature	75 °C	ISO 306	
Flame classification	-	UL 94	
Temperature resistance	70 °C		

Chemical properties	Typical Value
Polymer base	Polyethylene terephthalate glycol
Good chemical resistance	Water, acids, bases, alcohols
Low chemical resistance	Acetone, oils, grasses, car fluids, ozone

Other properties	Typical Value	Test Method	Test Condition
Material density	1.27 g/cm^3	ISO 1183	
UV stability	No		
Electrical volume resistivity	10^{16} Ω·cm		
Food contact	Yes		
Biodegradability	No		
Transmittance	90 %		

Diameter tolerance: ± 0.05 mm
Weight: 750 g (premium) / 1000 g (basic, transparent) of filament + 210 g spool

- High transparency and gloss
- Low warping and shrinkage
- Flexural resistance
- High strength and hardness
- Temperature resistance up to 70 °C

Workability of 3D printing filament is at least 12 months from delivery.
This material can be used to produce electrical and electronic equipment. It doesn't contain restricted substances.
The information was processed with the best knowledge of the manufacturer, and it is for information only.

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