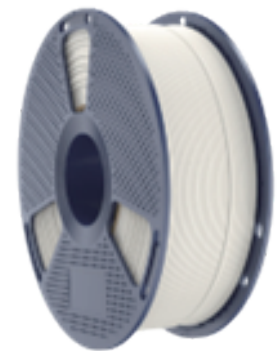


G201

Technical Data Sheet

Offers better mechanical properties than any other regular PETG making it a good candidate for a wide range of application.



Available Color



Material Status	Mass Production
Characteristics	• Good impact strength and Toughness • Multiple color • Excellent printability
Applications	• Ornaments and Toys • Handcrafts
Form	• Filament
Processing method	• 3D Print, FDM Print

	Testing	Method	Typical value
Physical Properties			
Density	ISO 1183,GB/T 1033	1.24	g/cm ³
Melt Flow Index	ISO 1133	3.91	210°C/2.16kg
Mechanical Properties			
Tensile Strength (X-Y)	ISO 527,GB/T 1040	39.28	MPa
Tensile Strength (Z)		35.67	MPa
Elongation at Break (X-Y)	ISO 527,GB/T 1040	7.9	%
Elongation at Break (Z)		5.84	%
Young'Modulus (X-Y)	ISO 527,GB/T 1040	1577	MPa
Young'Modulus (Z)		1832.08	MPa
Bending Strength (X-Y)	ISO 178,GB/T 9341	54.79	MPa
Bending Strength (Z)		52.92	MPa
Bending Modulus (X-Y)	ISO 178,GB/T 9341	1498.29	MPa
Bending Modulus (Z)		1606.10	MPa
Impact strength (X-Y)	ISO 179,GB/T 1043	110.00	KJ/m ²
Impact strength (Z)		N/A	
Thermal Properties			
Heat distortion Temperature	ISO 75 0.45MPa°C	76	°C
Glass Transition	DSC,10°C/min	79	°C
Melting Point	DSC,10°C/min	N/A	
Electrical Properties			
Surface Resistance	DIN IEC 60093	N/A	

Nantong Qiangsheng Graphene Technology Co., Ltd

 Room 1811, Shanghai International Trade Center
 2201 Yan An Xi Road, Shanghai, China, 200336
 sales@graphenova.net
 graphenova.net



G201

Recommended printing parameters

Print Temperature	230- 240°C
Build Platform	70-80°C
Cool Fan	0-20%
Printing Speed	100-300mm/s

Based on 0.4 mm nozzle and Simplify 3D v.4.1.2. Printing conditions may vary with different nozzle diameters

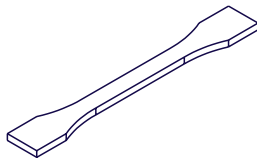
Drying Recommendations

The samples for the general test need to be dried at 55°C for at least 4 hours before printing.

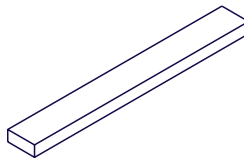
Precautions:

Remote printing needs to reduce the printing speed ($\leq 40\text{mm/s}$) to prevent potential feeding issue

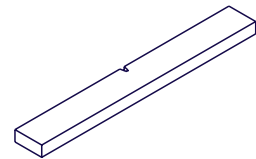
Mechanical Properties



Tensile testing specimen GB/T 1040
Testing specimen GB/T 1043



Bending testing specimen GB/T 9341



Impact

The physical properties, mechanical properties, thermal properties, and electrical properties of the line are obtained based on the injection molding spline test.

Print test condition :

Print Temperature	240°C
Build Platform Temperature	80°C
Outline/Perimeter Shells	2
Top/Bottom Layers	4
Infill Percentage	100%
Cool Fan	Off
Printing speed	40mm/s

Based on 0.4 mm nozzle and Simplify 3D v.4.1.2.

Notice

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