

G102



Available Color









Technical Data Sheet

 ${\bf Good\ acid\ and\ alkali\ resistance\ and\ good\ toughness,\ resistant\ to\ drops\ and\ impacts.}$

Material Status	Mass Production
Characteristics	Good acid and alkali resistance
	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	1.25	g/cm3
Melt Flow Index	ISO 1133	7.37	210°C/2.16kg
Mechanical Properties			
Tensile Strength (X-Y)	ICO 527 CB /T 10/0	50.08	MPa
Tensile Strength (Z)	ISO 527,GB/T 1040	46.21	MPa
Elongation at Break (X-Y)	ISO 527,GB/T 1040	6.81	%
Elongation at Break (Z)		7.13	%
Young'Modulus (X-Y)	ICO 527 CD /T 10/0	2208.99	MPa
Young'Modulus (Z)	ISO 527,GB/T 1040	1996.58	MPa
Bending Strength (X-Y)	ISO 178,GB/T 9341	65.52	MPa
Bending Strength (Z)		66.84	MPa
Bending Modulus (X-Y)	ISO 178,GB/T 9341	1653.77	MPa
Bending Modulus (Z)	150 176,08/1 9541	1740.7	MPa
Impact strength (X-Y)	ISO 170 CD /T 10/7	17	KJ/m2
Impact strength (Z)	ISO 179,GB/T 1043	N/A	
Thermal Properties			
Heat distortion Temperature	ISO 75 0.45MPa°C	78.4	°C
Glass Transition	DSC,10°C/min	81	°C
Melting Point	DSC,10°C/min	N/A	

Nantong Qiangsheng Graphene Technology Co., Ltd

Room 1811, Shanghai International Trade Center 2201 Yan An Xi Road, Shanghai, China, 200336







G102

Recommended printing parameters		
Print Temperature	230- 240°C	
Build Platform	70-80° C	
Cool Fan	0-20%	
Printing Speed	50-200mm/s	

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

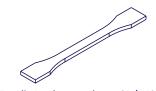
Drying Recommendations

The samples for the general test need to be dried at 65°C for at least 4 hours before printing.

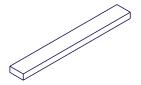
Precautions:

Remote printing needs to reduce the printing speed (≤40mm/s) to prevent potential feeding issue

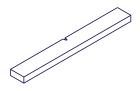
Mechanical Properties



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	235 °C
Build Platform Temperature	75°C
Outline/Perimeter Shells	4
Top/Bottom Layers	4
Infill Percentage	20%
Cool Fan	20%
Printing speed	50mm/s

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

Notice

All information supplied by or on behalf of GRAPHNEOVA in relation to this product, whether in the nature of data, recommendations or otherwise, is supported by research and, in good faith, believed reliable, but the product is sold as is. GRAPHNEOVA assumes no liability and makes no representations or warranties, express or implied, of merchantability, fitness for a particular purpose, or of any other nature with respect to information or the product to which information refers and nothing herein waives any of the seller's conditions of sale.

Nantong Qiangsheng Graphene Technology Co., Ltd

Room 1811, Shanghai International Trade Center 2201 Yan An Xi Road, Shanghai, China, 200336



