PETG-Matte

Technical Data Sheet

PETG-Matte filament is an entry-level matte product with high cost performance, excellent printing performance, a wide range of colors and matte texture of the printed model.

Basic Information

Characteristics	• Good toughness • Strong impact resistance • High speed printing	• Smooth printed surface • Esay to print • Hard to break
Applications	• Prototyping • Cosplay	• Decoration • Other mechanical parts
Forming Method	• Filament	
Processing Method	• 3D Printing	

Physical Properties	Testing Method	Data
Density	GB/T 1033	1.35 g/cm3
Melt Flow Index	GB/T 3682	17 （250℃/2.16kg）

Thermal Properties	Testing Method	Data
Heat Distortion Temperature	GB/T 1634	71.1 ℃ (0.45Mpa)
Glass Transition Temperature		N/A
Continuous Service Temperature	IEC 60216	N/A
Maximum (short term) Use Temperature		N/A

Electrical Properties	Testing Method	Data
Insulation Resistance	DIN IEC 60167	N/A
Surface Resistance	DIN IEC 60093	N/A

15AB, Microsoft Ketong Building, No. 55, Gaoxin South Nine Road, Yuehai Street, Nanshan District, Shenzhen, China
Tel: (086)-0755-86581960 Fax: (086)-0755-26031982 Email: bright@brightcn.net
www.esun3d.com

Mechanical Properties	Testing Method	Data
Tensile Strength (X-Y)	GB/T 1040	67.6 Mpa
Tensile Strength (Z)	GB/T 1040	19.51±1.205 MPa
Elongation at Break (X-Y)	GB/T 1040	13.49±8.75 %
Elongation at Break (Z)	GB/T 1040	2.71±0.27 %
Flexural Strength (X-Y)	GB/T 9341	77.1±1.7 MPa
Flexural Strength (Z)	GB/T 9341	30.1±2.5 Mpa
Flexural Modulus (X-Y)	GB/T 9341	2405.17±122.2 MPa
Flexural Modulus (Z)	GB/T 9341	1757.03±46.57 Mpa
IZOD Impact Strength (X-Y)	GB/T 1843	2.2 KJ/m²
IZOD Impact Strength (Z)	GB/T 1843	2.29KJ/m²

Chemical Properties	Data
Acid and Alkali Resistance	/
Grease Resistance	/
UV Resistance	/
Water Repellency	/

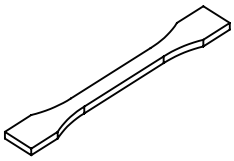
Recommended Printing Parameters	Data
Drying Preparation	60℃
Nozzle Size	0.2,0.4,0.6,0.8mm
Nozzle Temperature	240-260℃
Build Platform Type	PEI
Build Platform Temperature	70℃
Fan Speed	50-100%
Printing Speed	40-250mm/s

15AB, Microsoft Ketong Building, No. 55, Gaoxin South Nine Road, Yuehai Street, Nanshan District, Shenzhen, China
Tel: (086)-0755-86581960 Fax: (086)-0755-26031982 Email: bright@brightcn.net
www.esun3d.com

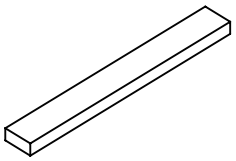
Printing Tips

When slicing, it is best to turn on the Z seam alignment and starting point alignment functions, turn off the Z-axis lift and exit, avoid passing through the shell when idling, optimize the slicing printing path, and appropriately reduce the printing speed to achieve the best printing effect.

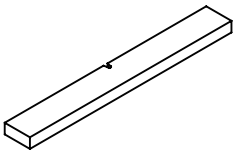
Test Conditions of Mechanical Properties



Tensile testing specimen GB/T 1040



Flexural testing specimen GB/T 9341



Impact testing specimen GB/T 1843

The performance of the filament is evaluated based on standard samples printed by eSUN, while the actual printing performance is influenced by various factors such as printer type, printing parameters, and print environment.

Printing Test Conditions:

Extruder Temperature	250℃
Build Platform Temperature	70℃
Outer Layer Number	2
Top/Bottom Layer Number	3
Infill Density	100%
Fan Speed	100%

*Based on Bambu P1S 0.4 mm nozzle and Orcaslicer 2.1.0 Beta.

Notice

The information provided by or on behalf of eSUN regarding this product, whether in the form of data, recommendations, or otherwise, is supported by thorough research and believed to be reliable in good faith. However, please note that the product is sold "as is". eSUN assumes no liability and does not make any express or implied representations or warranties regarding the merchantability, fitness for a particular purpose, or any other nature of the information or the product it pertains to. This statement does not waive any conditions of sale set forth by the seller.

15AB, Microsoft Ketong Building, No. 55, Gaoxin South Nine Road, Yuehai Street, Nanshan District, Shenzhen, China
Tel: (086)-0755-86581960 Fax: (086)-0755-26031982 Email: bright@brightcn.net
www.esun3d.com