Technical Data Sheet
3D Printing Filament

Material: **PETG**

Description:

PETG filament is a durable, flexible material that combines the strength of ABS with the ease of printing of PLA, offering excellent impact resistance and minimal warping. Its high chemical resistance and ability to withstand temperatures up to 80°C make it ideal for functional prototypes and mechanical parts.

1.75 0.175 1000 2.86 gm
cm m cm gm/100cm
0.09621128 96.21127502 0.029726

Physical Properties	Typical Value	Test Method
Density	**1.20 g/cm3**	**ASTM D792**
Dia Tolerance	**+/-0.03**	
Weight	**1000gm**	
MFR	**4-11 g/10min**	**ISO 1133**

Mechanical Properties (Printed)	Typical Value	Test Method
Tensile Strength	**53MPA**	**ISO-527**
Elongation at Break	**8.8%**	**ISO-527**
Flexural Modulus	**1973 N/mm2**	**ISO-527**
Flexural Strength	**65MPa**	**ISO-178**
Impact Strength	**5.2 KJ/M2**	**ISO-179**

Thermal Properties		
Heat Deflection Temperature	**74oC**	**ISO 306**
Melting Temperature	**190 oC +/-5**	**ISO 306**

Print Settings		
1st Layer Temp	**240-250**	**oC**
Printing Temp	**235-280**	**oC**
Bed Temp	**80-90**	**oC**
Bed Surface	**PEI Textured**	
Cooling	**0-50%**	**%**
Speed	**40-150**	**mm/s**

*** Dry Filament before use - 55/60oC 6hrs**

Document: **TDS PETG**
Issue Date: **28/08/2024**
Release Version: **V1.1**