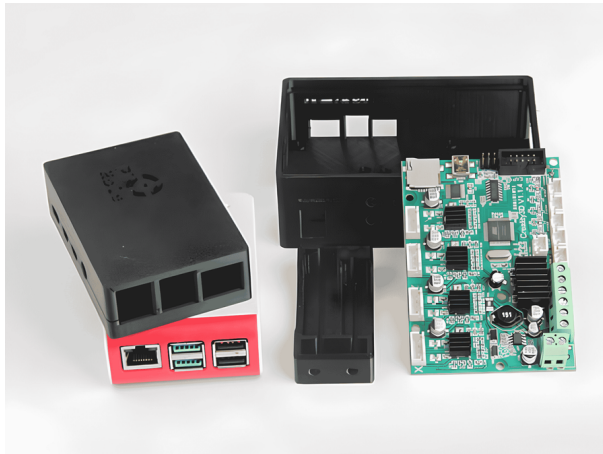


PETG-ESD

STANDARD PLASTICS FOR FDM 3D PRINTING



MATERIAL NAME

PETG-ESD

COLOR

Black

PROCESS

FDM

PRODUCT DESCRIPTION

PETG-ESD is a PETG modified material with anti-static capabilities. It takes into account PETG's ease of printing, moisture resistance and toughness, and can reduce the risk of static electricity accumulation. It is suitable for electronic fixtures, turnover fixtures, housings and anti-static functional prototypes.

TYPICAL APPLICATIONS

- Functional prototype testing
- End-use plastic parts
- Assembly testing
- ESD tooling/equipment

PRODUCT SAFETY

Thermoplastic printed parts should be handled according to normal workshop safety practices. Avoid high heat, open flames, and inhalation of fumes generated during post-processing or overheating.

PRODUCT DELIVERY & WAREHOUSING

- STORAGE**
Store parts in a dry, cool, and clean environment away from direct sunlight and high heat. Keep the material sealed before processing.
- TRANSPORTATION**
Pack parts securely to prevent warping, scratching, and impact. Protect from moisture and temperature swings during transit.

PROPERTIES OF PRINTED MATERIAL

Properties	Test Method	Value
Density (g/cm3)	ISO 1183	1.22 g/cm3
Water Absorption (%)	ISO 62	0.3%
Tensile strength (MPa)	ISO 527	XY: 48.11±0.535 Z: 19.34±5.801 MPa
Elongation at break	ISO 527	XY 8.97±1.62 Z 2.52±0.75%
Flexural strength (MPa)	ISO 178	XY: 77.7±0.7 Z: 41.2±3.0 MPa
Flexural modulus (MPa)	ISO 178	XY: 2162.79±61.09 Z: 1483.12±58.639 MPa
Heat deflection temperature @ 0.45 MPa (deg C)	ISO 75	HDT @ 0.45 MPa: 68 deg C
Impact strength notched	ISO 180	XY: 4.95 Z: 1.93 KJ/m²; ISO 180 (Izod)

Tips: Want to explore a wider range of materials? Check out <https://www.unionfab.com/materials>