

## High transparency and chemical resistance

Premium PET-G is a material based on glycol-modified polyethylene terephthalate. Items printed using this material have a high content of the crystalline phase, which allows for the near transparency effect at a small number of outer perimeters of additive manufactured items. A major advantage provided by Premium PET-G are the virtually zero shrinkage rate and low absorption of moisture as compared to other thermoplastics used for FDM/FFF 3D printing. As regards other properties of Premium PET-G, note the good creep resistance under constant load conditions. It results from the very good cohesion between the layers of the material applied.

### Key features:

- high transparency as compared to other materials for additive manufacturing
- very good mechanical properties as regards rigidity, hardness and impact resistance
- chemical resistant
- high dimensional accuracy
- combines the advantages of PLA and ABS
- exceptional adhesion between layers
- odour-free printing

### Applications:

- visual and functional prototyping
- fit testing
- concept models
- manufacturing aids
- manufacturing of semi-transparent enclosures and backlit sections of various boards and signs

### Filament specification:

Filament diameter: 1.75mm ± 0.05mm / 2.85mm ± 0.05mm

Density: 1.27 g/cm<sup>3</sup>

Nozzle temperature: 230-255°C

Bed temperature: 60-80°C

Printing speed: 40-120mm/s

Verify your spool option: YES