

PETG TDS

AzureFilm PETG (Copolyester) for FDM 3D Printers

Product Description

AzureFilm PETG (Copolyester) filament is a plastic thread that combines the properties of the ABS filament (solid, temperature-resistant, extremely durable, flexible) and the PLA filament (easy to print). Because of these properties, PETG is a filament material for 3D printing that you must have.

Properties

Property of 3D printed specimens	Test method	Value
Material	Copolyester	Color Transparent
Specific Density	ASTM D-792	1,29 g/cm ³
Tensile Yield Stress	ISO 527-2	51 MPa
Tensile Modulus	ISO 527-2	2980 MPa
Tensile Stress at Break	ISO 527-2	20 MPa
Elongation at yield	ISO 527-2	4%
Elongation at break	ISO 527-2	29%
Flexural Modulus	ISO 178	2040 MPa
Flexural Strength	ISO 178	68 MPa

Test specimens print settings

3D printer: Creality Ender 3

Infill: 100 %

Nozzle temperature: 230 °C

Slicer: Cura

Shells: /

Bed temperature: 80 °C

Nozzle: 0,4 mm

Layer height: 0,2 mm

Print speed: 100 mm/s

Printing Recommendations

Nozzle temperature: 220 – 240 °C

Heated bed: recommended 60-80 °C

Print speed: 50 – 200 mm/s

Build platform: Blue tape, Kapton tape. Recommended: Glass bed + Dimafix spray