

## FLEX TPU

### Technical Data Sheet

Description	Flex is a very strong and flexible material. There are many use cases when hard plastic is not the best option. Whether you need a phone cover, an action camera case .
Key Features	Flex has a very good abrasion resistance, remains flexible in cold environments, and is resistant to many solvents. It doesn't shrink much when cooling down.
Applications	Vibration dampening, Grip Sleeves, Hinges, Seals, Plugs, Snap-fit parts

#### 1. Identification

Trade name	FLEX TPU
Chemical name	Thermoplastic polyurethane
Chemical family	Polyurethane
Use	Monofilament for 3D printing

#### 2. Filament Processing Parameters

Nozzle Temperature	195 ± 15°C
Bed Temperature	~ 70 °C

### 3. Material Properties - Tensile Test

Test Method: ASTM D 792

<b>Test Parameters</b>	<b>Results</b>
Tensile Strength (MPa)	1.22
Elongation at Break (%)	580
Flexural Strength (MPa)	-
Flexural Modulus (MPa)	-
Izod Impact Strength(KJ/m <sup>2</sup> )	19.1
Density (g/cm <sup>3</sup> )	1.22