

## EVO-tech TPE EV02 Filament



### Description

- ▶ Shore Hardness = 95A
- ▶ Truly flexible
- ▶ 300% elongation allows for repeated movement
- ▶ Polyurethane composition allows for excellent vibration reduction
- ▶ Abrasion resistance 20% better than ABS
- ▶ Chemical resistant to many materials, including naphtha, ASTM Oils #1-3, petroleum

### Application

Seals, gaskets, plugs, leveling feet, protective applications.

### Storage and Shelf Life

Store at around room temperature (18 to 27 °C [65–80 °F]) and protect from direct heat or sunlight. Keep sealed in an air tight container, away from humidity.

Dry before use for 4 hours at 70 °C

Values refer to the raw material and may vary depending on the printing direction or settings

Properties	Test Condition	Test Method	Unit	Value
Tensile Strength, Yield	50mm/min	ASTM D638	Mpa	4
Tensile Strength, Ultimate	50mm/min	ASTM D638	Mpa	26
Tensile Modulus		ASTM D638	Mpa	12
Elongation at Yield		ASTM D638	%	65
Elongation at Break		ASTM D638	%	350
Abrasion Resistance (mass loss, 10,000 cycles)		ASTM D4060	g	0,08
Impact Strength (notched Izod, 23C)		ASTM D256	kJ/m2	4,2
Heat Deflection Temperature (HDT) @ 0.07 MPa		ASTM D648	°C	60
Heat Deflection Temperature (HDT) @ 0.45 MPa		ASTM D648	°C	44
Glass Transition (Tg)			°C	-35
Hardness		ASTM D2240	-	95A [+/- 5]
Heat Defelction Temperature	-	ASTM D785	°C	95
Specific Gravity	-	ASTM D792	g/cm <sup>3</sup>	1,19
Moisture Absorption	24 hours	ASTM D570	%	0,15

### Print Settings EVOLizer

Extruder Temperature: 225°C – 235°C

Platform Temperature: 50°C – 60 °C

Print on: Kapton foil

Print Speed:

Top and bottom layers: 15 mm/ sec

Infill speeds: 20 mm/ sec