

## EVO-tech PPS Filament

### Description

PPS is one of the most important high temperature thermoplastic polymers because it exhibits a number of desirable properties. These properties include resistance to heat, acids and alkalies, and to mildew, to bleaches, aging, sunlight, and abrasion. It absorbs only small amounts of solvents and resists dyeing.

### Application

Motor insulators, Microwave parts, Electromagnetic cooker coil bases, Lamp sockets, Exhaust gas control valves, Coolant pump impellers, housings, High Voltage Isolators

### 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.

### True Colours Available

Color: grey

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	50mm/min	ISO 527-2	N/mm <sup>2</sup>	60
Strain at Break	50mm/min	ISO 527-2	%	70
Tensile Modulus	1mm/min	ISO 527-2	N/mm <sup>2</sup>	2400
Impact Strength	23°C	ISO 179	kJ/m <sup>2</sup>	20
Heat Distortion Temperature	1,80 Mpa	ISO 75-1 A	°C	100
Melting Temperature			°C	280
Water Absorption		ISO62	%	0,2
Isolation (Infill > 95%)			KV/mm	13
Density		ISO 1183	g/cm <sup>3</sup>	1,26

### Print Settings EVOLizer

Extruder: 335 °C

Heatbed: 80-120 °C

Print on. EVO-tech Aluminium Printbed with cover foil; or PEI Foil (EL-102)