

## Fishy Filaments' Porthcurno by Fillamentum

Mechanical properties	Typical Value	Test Method	Test Condition
Tensile strength at yield	59 MPa	ISO 527-2	10 mm/min, 23 °C
Tensile strength at break	48 MPa	ISO 527-2	10 mm/min, 23 °C
Elongation at break	51 %	ISO 527-2	10 mm/min, 23 °C
Tensile modulus	2200 MPa	ISO 527-2	10 mm/min, 23 °C
Flexural strength	70 MPa	ISO 178	
Flexural modulus	2100 MPa	ISO 178	
Hardness	-	ISO 7619	
Charpy impact strength	5 kJ/m <sup>2</sup>	ISO 180	notched, 23 °C
Abrasion resistance	0.02 %	Taber Abrasion H22 / 3000 cycles	
Thermal properties	Typical Value	Test Method	Test Condition
Melting temperature	220 °C	ISO 11357-3	
Glass transition temperature	55 °C	ISO 11357	
Melt flow index	11 g	ISO 1133	250 °C, 2,16 kg
Vicat softening temperature	195 °C	ISO 306	
Flame classification	-	UL 94	
Temperature resistance	180 °C		
Chemical properties	Typical Value		
Polymer base	Polyamide 6 (PA6)		
Good chemical resistance	Water, car fluids, oils, grasses, acetone		
Low chemical resistance	Bases, acids, alcohol, ozone		
Other properties	Typical Value	Test Method	Test Condition
Material density	1.13 g/cm <sup>3</sup>	ISO 1183	
UV stability	Ne		
Electrical volume resistivity	10 <sup>16</sup> Ω·cm		
Food contact	No		
Biodegradability	No		
Transmittance	No		



Diameter tolerance: ± 0.05 mm  
Weight: 750 g of filament + 230 g spool

- 100% recycled material from fishing nets
- Excellent mechanical resistance
- Smooth and shiny finish
- Temperature resistance up to 180 °C

Workability of 3D printing filament is at least 12 months from delivery.

This material can be used to produce electrical and electronic equipment. It doesn't contain restricted substances.

The information was processed with the best knowledge of the manufacturer, and it is for information only.