

Mosaic PEEK

Technical Data Sheet

Compatible with Element, Element HT & Array



Description

Mosaic PEEK is a thermoplastic engineering-grade material with exceptional strength, durability and low flammability, making it ideal for various industries, including automotive, aerospace, medicine, and dentistry.

Key Features

- Fatigue Resistant
- Durable
- Autoclavable
- High Chemical Resistance
- High Thermal Resistance

Available Colours



Sample Applications

- Medical Tools
- ✓ Wire Protections/Shieldings
- Aerospace Components
- Dental Instruments
- Mechanical Parts

Filament Specifications

Diameter	Tolerance
1.75 mm	+/- 0.05 mm

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Printing Guidelines

Slicer Profile	Coming soon to canvas3d.io	
Nozzle Temperature	400°C	
Heated Chamber	Required	
Build Surface	Element Bed Type II with glue stick	
Special Considerations	Mosaic PEEK can be challenging to print and requires tuning based on part geometry	

Note: For best results, parts should only be printed one at a time. If more parts are printed at once, the interlayer adhesion becomes significantly weaker.

Storage/Handling Considerations

Hygroscopicity	High
Drying Temperature	120°C
Drying Time	4 Hours

Note: When not in use, spool should be stored in a Mosaic Material Pod or inside a vacuum sealed container.

Material Properties

Property	Standard	Typical Value
Density	ISO 1183	1.3 g/cc
Tensile Strength, Break	ISO 527	92.23 MPa
Tensile Modulus	ISO 527	3654 MPa
Elongation at Break	ISO 527	11.5%
Heat Deflection Temp.	ISO 75 0.45MPa	138.1°C

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Multi-Material Compatibility

Automation

Same-material Automated Changeover	With Material Pod
Supports	
Same-material support	Yes
Compatible Soluble Materials	None
Compatible Breakaway Materials	None

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