

# Mosaic Nylon



## Technical Data Sheet

Compatible with Element, Element HT & Array



## Description

Mosaic Nylon is a versatile material that shares similar characteristics with Mosaic Matrix our carbon fiber nylon, such as high strength-to-weight ratio and wear resistance. However, Mosaic Nylon offers added benefits of flexibility and biocompatibility, making it suitable for a wide range of applications.

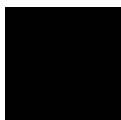
### Key Features

- ✓ Wear Resistant
- ✓ Self-lubricating
- ✓ Flexible
- ✓ Durable

### Sample Applications

- ✓ Prosthetics
- ✓ Jigs and Fixtures
- ✓ Aerospace Components
- ✓ Sporting Equipment
- ✓ Automotive Parts

## Available Colours



Black

## Filament Specifications

Diameter	Tolerance
1.75 mm	+/- 0.05 mm

## Printing Guidelines

<b>Slicer Profile</b>	Coming soon to canvas3d.io
<b>Nozzle Temperature</b>	275°C
<b>Heated Chamber</b>	Not Required
<b>Build Surface</b>	Element Bed Type 1 with glue stick
<b>Special Considerations</b>	N/A

## Storage/Handling Considerations

<b>Hygroscopicity</b>	High
<b>Drying Temperature</b>	100°C
<b>Drying Time</b>	8 hours

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

## Material Properties

<b>Property</b>	<b>Standard</b>	<b>Typical Value</b>
Density	ISO 1183	1.12 g/cc
Tensile Strength, Break	ISO 527	64.48 MPa
Tensile Modulus	ISO 527	2219 MPa
Elongation at Break	ISO 527	9.81%
Heat Deflection Temp	ISO 75 1.8MPa	69.2°C

## Multi-Material Compatibility

### Automation

Same-material Automated Changeover	With Material Pod
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### Supports

Same-material support	Yes
Compatible Soluble Materials	None
Compatible Breakaway Materials	None