

# Mosaic Nylon

## 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

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



## FILAMENT SPECIFICATIONS

Diameter	Tolerance
1.75 mm	+/- 0.05 mm

## PRINTING GUIDELINES

Slicer Profile	Available on canvas3d.io
Nozzle Temperature	275°C
Heated Chamber	Not Required
Build Surface	Element Bed Type I, with glue stick
Special Considerations	N/A

## STORAGE/HANDLING CONSIDERATIONS

Hygroscopicity	High
Drying Temperature	100°C
Drying Time	8 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	1.12 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

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Same-material Automated Changeover	With Material Pod
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## SUPPORTS

Same-Material Support	Yes
Compatible Soluble Materials	None
Compatible Breakaway Materials	None

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## CONTACT INFORMATION

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