

# Mosaic Flex

## DESCRIPTION

Mosaic Flex is a thermoplastic polyurethane (TPU) material that is highly resistant and well-suited for various industrial applications. Its flexibility and durability make it an ideal choice for applications where these properties are highly desired. With a shore hardness of 95A, Mosaic Flex has the ability to stretch more than multiple times its original length while maintaining its shape.

## KEY FEATURES

- ✓ Flexible
- ✓ Durable
- ✓ Abrasion Resistant
- ✓ Chemically Resistant

## SAMPLE APPLICATIONS

- ✓ Tires
- ✓ Belts
- ✓ Footwear
- ✓ Gaskets & Seals
- ✓ Prosthetics



## FILAMENT SPECIFICATIONS

Diameter	Tolerance
1.75 mm	+/- 0.05 mm

## PRINTING GUIDELINES

Slicer Profile	Available on <a href="https://canvas3d.io">canvas3d.io</a>
Nozzle Temperature	240°C
Heated Chamber	Not Required
Build Surface	Element Bed Type I, with glue stick
Special Considerations	See note

*Note: Due to the material's flexibility, tall and thin models may wobble in higher layers and affect print quality. For certain part geometries, modelling in breakaway structures can aid in print quality.*

## STORAGE/HANDLING CONSIDERATIONS

Hygroscopicity	Low
Drying Temperature	65°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 at 23°C	1.20-1.24 g/cc
Tensile Modulus	ISO 37	30.1 MPa
Elongation at Break	ISO 37	347.77%
Shore Hardness	–	95A

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100% Modulus

ISO 37

9.6 MPa

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**MULTI-MATERIAL COMPATIBILITY**

**AUTOMATION**

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**Same-material Automated Changeover**

With Material Pod

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**SUPPORTS**

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**Same-Material Support**

Yes

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**Compatible Soluble Materials**

None

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**Compatible Breakaway Materials**

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None

**CONTACT INFORMATION**

**Technical Point of Contact**

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