

# Mosaic AeroFlex

## DESCRIPTION

Mosaic AeroFlex is a custom-formulated flexible 3D printing material developed for advanced orthotic and prosthetic applications. Engineered to behave like multi-density EVA in a digital workflow, AeroFlex delivers patient-specific cushioning that reduces localized pressure and improves functional comfort during gait.

## KEY FEATURES

- ✓ EVA-like cushioning
- ✓ Tunable Shore hardness
- ✓ Flexible
- ✓ Clean grindability



## SAMPLE APPLICATIONS

- ✓ Orthotic footbeds and inserts
- ✓ Prosthetic liners and padding
- ✓ Pressure-relief applications
- ✓ Foot orthoses and footwear integration layers
- ✓ Protective, cushioning, and comfort zones within devices

## FILAMENT SPECIFICATIONS

Diameter	Tolerance
1.75 mm	+/- 0.05 mm

## PRINTING GUIDELINES

Slicer Profile	Available on canvas3d.io
Nozzle Temperature	250°C
Heated Chamber	Not Recommended
Build Surface	Element Bed Type I, with glue stick
Special Considerations	See note

*Note: Due 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	N/A
Drying Time	N/A

*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	ASTM D-792	1.22 g/cc
Tensile Modulus	-	Varies with print settings
Elongation at Break	ASTM D-412	300-490%
Shore Hardness	-	Varies with print settings

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100% Modulus	-	Varies with print settings
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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
Compatible Soluble Materials	None
Compatible Breakaway Materials	None

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## CONTACT INFORMATION

### Technical Point of Contact

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