

Mosaic Aero

DESCRIPTION

Mosaic Aero 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, Aero 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 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	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

100% Modulus	-	Varies with print settings
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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

CONTACT INFORMATION

Technical Point of Contact

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