

Technical Data Sheet

Compatible with Element, Element HT & Array



Description

Mosaic Aero is a custom-formulated flexible material with a wide range of applications. Depending on the print settings used, the material can display a range of properties including Shore Hardness, Tensile Modulus and Elongation as well as a matte or shiny finish.

Key Features

- ✓ Low Density
- ✓ Flexible
- ✓ Matte Finish
- ✓ ISO 10993-5 cytotoxicity approved

Sample Applications

- ✓ Orthotics
- ✓ Prosthetics
- ✓ Packaging
- ✓ Footwear
- ✓ Robotic Components

Available Colours



Black

Filament Specifications

Diameter	Tolerance
1.75 mm	+/- 0.05 mm

Printing Guidelines

Slicer Profile	Coming soon to 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

Material Properties

Property	Standard	Typical Value
Density	ASTM D-792	1.22 g/cc
Tensile Modulus	ISO 37	Varies with print settings
Elongation at Break	ASTM D-412	300-490%
Shore Hardness	—	Varies with print settings
100% Modulus	ISO 37	Varies with print settings

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