

# Mosaic Form

## Technical Data Sheet

Compatible with Element, Element HT & Array



### Description

Mosaic Form is a strong and extremely flexible material, perfect for rigid or functional orthotics and requires little post processing.

### Key Features

- ✓ Strong
- ✓ Durable
- ✓ High moisture resistance
- ✓ Sandable
- ✓ Easy to print

### Sample Applications

- ✓ Rigid orthotics
- ✓ Packaging
- ✓ Jigs & fixtures

## Available Colors



Black

## Filament Specifications

Diameter	Tolerance
1.75mm	+/- 0.05 mm

## Printing Guidelines

Slicer Profile	Coming soon to canvas3d.io
Nozzle Temperature	235°C
Heated Chamber	Not Required
Build Surface	Element Bed Type I with glue stick
Special Considerations	N/A

## Storage/Handling Considerations

Hygroscopicity	None
Drying Temperature	Not Required
Drying Time	Not Required

## Material Properties

Property	Standard	Typical Value
Density		1.25 g/cc
Tensile Strength, Break	D638	36.2 MPa
Tensile Modulus	D638	412 MPa
Elongation at break	D638	>300%
Heat Deflection Temp.	0.455 MPa	N/A

## Multi-Material Compatibility

### Automation

Same-material Automated Changeover	With Material Pod
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### Supports

Same-material support	Yes
Compatible Soluble Materials	Dissolve LT
Compatible Breakaway Materials	None

## Safety Data Sheet

### Section 1: Identification

Product Identification:

**Product Name:** Mosaic Form  
**Chemical Name:** N/A  
**Recommended Use:** Additive Manufacturing

Supplier Information:

Mosaic Manufacturing  
403-111 Peter Street, Toronto, Ontario, Canada M5V 2H1  
Phone 647-570-0375  
Email: [info@mosaicmfg.com](mailto:info@mosaicmfg.com)

### Section 2: Hazard(s) Identification

**Regulation (EC) NO 1272/2008:** Not classified as a dangerous product

**Physical Hazards:** None

**OSHA Regulatory Status:** This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Section 3: Composition/Information on Ingredients

Information not available.

## Section 4: First-Aid Measures

**Eyes:** Flush with water. Consult a physician if symptoms persist.

**Skin Contact:** Not expected to require first aid measures with normal use. Wash with soap and water. For thermal burns from molten polymer, immediately flush with cold water. Do not attempt to remove cooled polymer from the skin. Obtain medical attention.

**Inhalation:** Leave exposed area and seek fresh air. If irritation persists, seek medical attention.

**Ingestion:** Not likely due to the nature of the product. If ingested, drink plenty of water. Do not induce vomiting. Consult a physician if symptoms persist.

## Section 5: Fire-Fighting Measures

**Extinguishing Media:** Use extinguishers suitable for surrounding fire.

Safety Precautions for Persons exposed to products of combustion should wear NIOSH approved self contained breathing apparatus and full protective equipment.

## Section 6: Accidental Release Measures

**Spill or release:** Clean up by vacuuming or sweeping to prevent falls. If molten, allow material to cool and place into an appropriate container for disposal.

## Section 7: Handling and Storage

**Precautions to be taken in handling and storage:** Store in a dry, sprinkler equipped warehouse. Product as shipped is not a combustible dust. Mechanical handling can cause the formation of dusts. To reduce the risk for dust explosion, avoid dust accumulation.

**Waste Disposal:** Dispose in accordance with applicable federal, state and local regulations.

## Section 8: Exposure Controls/Personal Protection

**Exposure Limits:** This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Respiratory Protection:** A NIOSH approved respirator is recommended for protection against processing polymeric fumes, or from dust generated from grinding, sanding, or sawing operations.

**Ventilation:** Local exhaust is preferred.

**Protection Gloves:** Not required.

**Eye Protection:** Safety glasses with side shields are recommended. Other: No protective equipment is needed under normal use conditions.

## Section 9: Physical and Chemical Properties

<b>Form:</b>	Solid
<b>Appearance:</b>	Translucent White Filament
<b>Odor:</b>	None
<b>Freezing Point:</b>	N/A
<b>Solubility in Water:</b>	Insoluble
<b>Specific Gravity:</b>	>1
<b>% Volatile:</b>	N/A
<b>Boiling Range:</b>	N/A
<b>Vapor Pressure (MM HG):</b>	Negligible

**Melting Point:** This product does not possess a specific melting point. It softens gradually over a wide temperature range.

**Note:** Those physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

## Section 10: Stability and Reactivity

**Polymerization conditions to avoid:** None

**Chemical Stability:** Stable under normal conditions

**Conditions to avoid:** Incompatible materials, including strong oxidizing agents

**Hazardous decomposition byproducts:** Carbon oxides

## Section 11: Toxicological Information

No specific toxicological information is available.

## Section 12: Ecological Information

No specific ecological information is available.

## Section 13: Disposal Considerations (non-mandatory)

**Waste Disposal:** Waste or unused product may be discarded in accordance with state, federal, and local regulations.

## Section 14: Transport Information (non-mandatory)

**Land Transport (DOT):** Non-Regulated

**Sea Transport (IMDG):** Non-Regulated

**Air Transport (ICAO/IATA):** Non-Regulated

## Section 15: Regulatory Information (non-mandatory)

<b>TSCA:</b>	N/A
<b>EINECS/ELINCS:</b>	N/A
<b>DSL/NDL:</b>	N/A
<b>PICCS:</b>	N/A
<b>ENCS:</b>	N/A
<b>IECSC:</b>	N/A
<b>AICS:</b>	N/A
<b>KECL:</b>	N/A

## Section 16: Other Information

**Prepared by:** Mosaic Manufacturing

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