

## **Mosaic Flex**

#### **Technical Data Sheet**

Compatible with Element, Element HT & Array



### **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

#### **Available Colours**



### **Filament Specifications**

Diameter	Tolerance
1.75 mm	+/- 0.05 mm

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## **Printing Guidelines**

Coming soon to canvas3d.io	
240°C	
Not Required	
Element Bed Type I with glue stick	
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	65°C
Drying Time	8 Hours

# **Material Properties**

Property	Standard	Typical Value
Density	ISO 1183 at 23°C	1.20-1.24 g/cc
	130 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	<del>_</del>	95A
100% Modulus	ISO 37	9.6 MPa

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### **Multi-Material Compatibility**

### **Automation**

Same-material Automated Changeover	With Material Pod
Supports	
Same-material support	Yes
Compatible Soluble Materials	None
Compatible Breakaway Materials	None

### **Contact Information**

#### **Technical Point of Contact**

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