

Mosaic FR-PC (Fire-retardant Polycarbonate)

Technical Data Sheet

Compatible with Element, Element HT & Array



Description

Mosaic FR-PC, is a high-performance material with high-toughness, heat resistance, strength and a V0 performance rating in the UL94 flame retardancy test.

Key Features

- ✓ Tough
- ✓ Strong
- ✓ High thermal resistance
- ✓ UL 94-V0 fire retardant

Sample Applications

- ✓ Light housings
- ✓ High temperature environments
- ✓ Mechanical components
- ✓ Structural parts

Available Colours



Black

Filament Specifications

Diameter	Tolerance
1.75 mm	+/- 0.05 mm

Printing Guidelines

Slicer Profile	Coming soon to canvas3d.io
Nozzle Temperature	290°C
Heated Chamber	Recommended
Build Surface	Element Bed Type I with glue stick
Special Considerations	N/A

Note: Mosaic FR-PC parts experience shrinkage of around 0.4% when cooled

Storage/Handling Considerations

Hygroscopicity	Moderate
Drying Temperature	75°C
Drying Time	6 hours

Material Properties

Property	Standard	Typical Value
Density	ISO 1183	1.2 g/cc
Tensile Strength, Break	ISO 527	71.19 MPa
Tensile Modulus	ISO 527	2694 MPa
Elongation at Break	ISO 527	10.77%
Heat Deflection Temp.	ISO 75 1.8MPa	106.7°C

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	HIPS