

Mosaic PEI 9085

DESCRIPTION

Mosaic PEI 9085 is a high-performance thermoplastic material with exceptional chemical resistance, hydrolytic stability, and heat resistance. With its low flame, smoke, and toxicity properties (FST), strength, resilience, and flame-resistant properties, PEI 9085 is a reliable choice for demanding applications.

KEY FEATURES

- ✓ High Chemical Resistance
- ✓ High Heat Resistance
- ✓ Low flame, Smoke and Toxicity (FST)
- ✓ Hydrolytic stability

SAMPLE APPLICATIONS

- ✓ Jigs and Fixtures
- ✓ Automotive Parts
- ✓ Aerospace Components
- ✓ Electronic Equipment
- ✓ Medical Equipment



FILAMENT SPECIFICATIONS

Diameter	Tolerance
1.75 mm	+/- 0.05 mm

PRINTING GUIDELINES

Slicer Profile	Available on canvas3d.io
Nozzle Temperature	360°C
Heated Chamber	Required
Build Surface	Element Bed Type I, with glue stick
Special Considerations	Mosaic PEI can be challenging to print and requires tuning based on part geometry.

Note: For best results, parts should only be printed one at a time. If more parts are printed at once, the interlayer adhesion becomes significantly weaker.

STORAGE/HANDLING CONSIDERATIONS

Hygroscopicity	High
Drying Temperature	120°C
Drying Time	4 Hours

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	ISO 1183	1.34 g/cc
Tensile Strength, Break	ISO 527	91.23 MPa
Tensile Modulus	ISO 527	90 MPa
Elongation at Break	ISO 527	7.45%

Heat Deflection Temp.	ISO 75 (@0.45MPa)	156.6°C
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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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