

Rizium™ One Material Specifications

Rizium One is our own compound of engineering- and medical-grade thermoplastic and produces parts two times stronger than FDM systems, making it ideal for prototypes, tooling, fixtures and jigs for manufacturing and end-use production parts.

Rize uses only safe, environmentally-friendly materials that emit no harmful particles and require no special venting, disposal equipment or gloves.

Mechanical Properties	English XZ Axis	English ZX Axis	Metric XZ Axis	Metric ZX Axis
Flexural Strength	10,008 psi	10,878 psi	69 MPa	75 MPa
Flexural Modulus	251,640 psi	285,870 psi	1735 MPa	1971 MPa
Flexural Strain	5%	6%	5%	6%

Thermal Properties	English	Metric
Glass Transition Temperature	210 °F	99 °C

Others	
Specific gravity	1.01 g/cm ³
Water absorption	<0.01 % in 24 h

Data is based on internal testing. Additional, comprehensive external testing will be conducted. Specifications are subject to change without notice.

Data presented should be regarded as standard and used as such for reference, rather than informing design and quality specifications. Actual user results can vary based on part design; application; user, operating and testing conditions and more. Users are responsible for determining that Rize materials are lawful and technically suitable for their applications, and for disposal or recycling methods according to applicable environmental laws and regulations. Rize Inc. makes no warranties of any kind, express or implied, including, but not limited to, the warranties of merchantability, fitness for a particular use or warranty against patent infringement.

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