



# POST-PROCESSING: THE DIRTY LITTLE 3D PRINTER SECRET NO ONE TALKS ABOUT. **UNTIL NOW.**

## Rizium™ One Material Specifications

Rizium One is our own compound of engineering- and medical-grade thermoplastic and produces isotropic parts stronger than polycarbonate (PC) and twice as strong as ABS*plus*, making it ideal for functional prototypes, tooling, fixtures and jigs for manufacturing and end-use production parts.

Rizium One is a safe, environmentally-friendly material that emits no harmful particles and requires no special venting, disposal equipment or gloves.

Mechanical Properties <sup>1</sup>	Test method	English XZ Axis	English ZX Axis	English XY Axis	Metric XZ Axis	Metric ZX Axis	Metric XY Axis
Flexural Strength At 3.5% strain, 23°C Maximum, 23°C	ISO 178 (method A)	9,427 psi 10,443 psi	9,427 psi 10,878 psi	8,876 psi 10,442 psi	65 MPa 72 MPa	65 MPa 75 MPa	61 MPa 72 MPa
Flexural Modulus		266,869 psi	285,724 psi	282,824 psi	1840 MPa	1970 MPa	1950 MPa
Flexural Strain		No break	No break	No break	No break	No break	No break

Thermal Properties <sup>2</sup>	English	Metric
Glass Transition Temperature	210 °F	99 °C

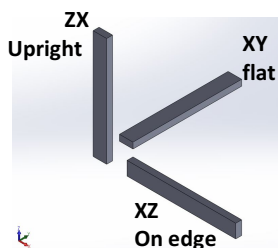
Others <sup>2</sup>	
Specific gravity	1.01 g/cm <sup>3</sup>
Water absorption	<0.01 % in 24 h

1 Data presented are actual values measured by certified external testing lab.

2 Data based on internal testing.

Specifications are subject to change without notice. Data presented are actual measured values and not guaranteed specifications. They do not guarantee performance level under actual usage. 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.

Orientation:



To learn more, email us at: [info@rize3d.com](mailto:info@rize3d.com) or call +1 978-699-3085.



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