

RIZIUM™ Glass Fiber

3D Printing Filament

Rizium™ GF

RIZIUM™ GF is an engineering-grade thermoplastic filament reinforced with glass fiber for a stunning visual finish, high stiffness, durability and full-color capabilities. RIZIUM™ GF is ideal for applications such as functional full color prototyping, intelligent parts in manufacturing (i.e. jigs & fixtures), larger parts that typically warp with other materials, and more.



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|-------------------------------|---------|-----------------------------|-------------------|
| Flexural Strength | 87 MPa | 12.7 Kpsi (max strain 23°C) | ISO 178, method A |
| Flexural Modulus | 2.9 GPa | 416 Kpsi | ISO 178, method A |
| Tensile Strength | 57 MPa | 8.2 Kpsi | ASTM D638 |
| Tensile Elongation | 1.9% | 1.9% | ASTM D638 |
| Tensile Modulus | 3.6 GPa | 524 Kpsi | ASTM D638 |
| IZOD Impact, unnotched | 230 J/m | 4.3 ft-lb/in | ASTM D256 |
| IZOD Impact, notched | 83 J/m | 1.6 ft-lb/in | ASTM D256 |

*Tests performed with parts printed on RIZE™ ONE printer using solid infill.



**Glass Transition, C
Heat Deflection (HDT), C
Flame Classification**

75°
75°
UL94-HB



**Specific Gravity
Moisture Absorption**

1.06 g/cm³
< .01%

Chemically resistant to acids, alcohols, and ketones.



Venting Requirements

None



**Packaging
Shelf Life
Storage Requirements**

50 in³ (820g) spool, individual carton
One year
Store in carton until ready for use

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.