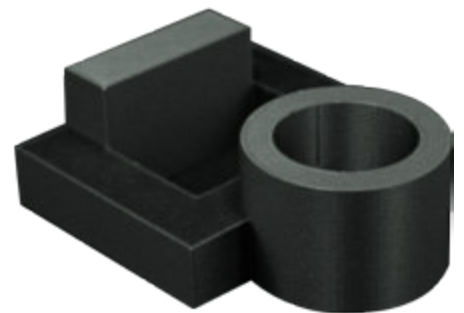


RIZIUM™ Carbon

3D Printing Filament

Rizium Carbon

RIZIUM™ CARBON is an engineering-grade thermoplastic filament reinforced with carbon fiber for a superior visual finish and higher modulus. RIZIUM CARBON is ideal for applications such as functional prototyping for manufacturing.



Flexural Strength	85 MPa	12.3 Kpsi (max strain 23°C)	ISO 178, method A
Flexural Modulus	4.8 GPa	682 Kpsi	ISO 178, method A
Tensile Strength	56 MPa	8.1 Kpsi	ASTM d638
Tensile Elongation	1.1%	1.1%	ASTM d638
Tensile Modulus	6.7 GPa	966 Kpsi	ASTM d638
IZOD Impact, unnotched	225 J/m	4.2 ft-lb/in	ASTM d256
IZOD Impact, notched	75 J/m	1.4 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**

78°
73°
UL94-HB



**Specific Gravity
Moisture Absorption**

1.02 g/cm³
< .01%

Chemically resistant to acids, alcohols, and ketones.



**VOC Emissions
Venting Requirements
Residual Metals Content**

None
None
< .02 ppm



**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 RIZIUM™ materials are lawful and technically suitable for their applications and for disposal or recycling methods according to applicable environmental laws and regulations. Palitra, LLC. 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.