

R-PEEK Filament

R-PEEK filament, a high-performing recycled engineering thermoplastic that is excellently suited for high strength and high temperature 3D printing applications. Made from VICTREX™ PEEK 450G™ regranulated scraps from the semi-finished process, our R-PEEK is produced using high purity recycling procedures and processes, ensuring that it is of high quality and offers significant savings over virgin materials. The PEEK molecule is highly stable, which means that it can be re-melted and reprocessed multiple times without losing its properties, making it an environmentally friendly and economically sustainable option.

R-PEEK is widely used in a variety of industries, including aerospace, automotive, electrical/electronics, engineering, marine and chemical. Its durability and performance in demanding environments have made it a popular choice for replacing metal and other polymers.

MATERIAL PROPERTIES	TYPICAL VALUE	TEST METHOD
Density (at 23°C)	1.3 g/cm ³	ASTM D792
Breaking Strength	90 MPa	ASTM D638
Elongation	30 %	ASTM D638
Tensile Modulus	3400 MPa	ASTM D638
Charpy Impact Strength	7 C kJ/m ²	ASTM 256
Service Temp. (constantly)	260 °C	ASTM D648
Short Term (0,46MPa)	315°C	ASTM D648
Flammability	V-0	UL 94/IEC60695
Surface Resistivity	10 ¹⁴	IEC 60093

* Data based on injection molded samples

PRINT RECOMMENDATIONS	
Nozzle Temperature	400-450°C
Bed Temperature	120-160°C
Chamber Temperature	+ 90°C
Drying recommendations	6-8 hours, 120°C

Disclaimer: 3D4Makers makes no warranties what so ever, either expressed or implied, including but not limited to, any implied fitness for any particular purpose. From the moment the product is shipped it is beyond our control. The information in this document is believed to be correct at the time of writing. However, handling, processing, settings, the type of 3D printer, slicing and other variables are completely up to the user. The method through which the product is used can be varied. It is up for the customer to determine how it is 3D printed and whether it is fit for purpose or suited to a particular application.

Additional info: To get the best results while printing we advise you to keep the 3D printer in a room where there is hardly any draft and/or temperature fluctuations. Keep the 3D printer out of direct sunlight. When the 3D printer is not being used it is important to keep the 3D4Makers filament in a bag and stored in a cool, dry and dark place until it is used again.

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