

Easy to print and perfect for design iterations, BigRep rPETG features well-balanced mechanical properties and chemical resistance.

Filament Properties

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|---------------------------|---|
| Material | Polyethylene Terephthalate, glycol-modified |
| Diameter | 2.85 mm |
| Density (ISO 1183) | 1.23 g/cm ³ |

Physical & Mechanical Properties

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|---|----------------------|
| Tensile Strength (ISO 527) | 54 MPa |
| Tensile Modulus (ISO 527) | 1800 MPa |
| Flexural Strength (ISO 178) | 68 MPa |
| Flexural Modulus (ISO 178) | 2000 MPa |
| Impact Strength, Notched (ISO 179) | 10 kJ/m ² |

Thermal Properties

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| HDT A - 1.8 MPa (ISO 75) | 63 °C |
| HDT B - 0.45 MPa (ISO 75) | 70 °C |
| Vicat Softening Temperature (ISO 306) | 78 °C |
| Glass Transition Temperature (T_g) (DSC) | 85 °C |

Recommended Printing Conditions

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|------------------------------|--------------|
| Nozzle Temperature | 220 - 250 °C |
| Print Bed Temperature | 70 - 90 °C |
| Fan Speed | 0 - 50 % |

Other Information

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|-------------------------------|-----------------------|
| Drying Recommendations | 60 °C for 4 - 6 hours |
| Reach Compliant | Yes |
| RoHS Certified | Yes |
| FDA Compliant | No |

The technical data provided herein are for general information and comparison purposes only. Mechanical strength and other properties of parts printed with these materials can vary greatly depending on print settings, user experience, and environmental conditions. We do not guarantee the suitability, safety, or performance of printed parts for any specific purpose. It is the responsibility of the user to test and determine whether the printed parts meet the requirements for their intended use. We do not accept any liability for damage, injury, or loss resulting from the use of this material or from parts made with this material. Please review all available safety information and perform your own testing before using this product in any application.