



# PRO HT

## EASY PRINTING AND SUPPORT REMOVAL

MADE FOR

bigrep **ONE**bigrep **PRO**bigrep **STUDIO**COMPATIBLE  
**FFF 3D PRINTERS**

Incredibly **easy to print** and producing consistently beautiful results, BigRep's PRO HT is one of our best-selling filaments for good reason! With an attractive matte surface finish, PRO HT is formulated for **effortless breakaway support removal** leaving minimal artifacts to the adjacent print surface.

Displaying good performance under a range of mechanical stresses, BigRep PRO HT is a **well-rounded filament** choice for many different applications. Its balanced performance and reasonable price make PRO HT a great all-around material, perfect for **prototypes** and some end use parts such as **custom auto interiors**.

BigRep PRO HT is a biopolymer with **reduced environmental impact**, especially compared to filaments derived from fossil fuels. It is FDA **compliant for food safety** and meets all requirements of EU Directives on food contact.



Easy to Print for  
Wide Range of Uses



Effortless Breakaway  
Support Removal



FDA and EU Certified  
Food Safe



Reduced  
Environmental Impact



Attractive Matte  
Surface Finish



PHYSICAL PROPERTIES	TEST METHOD	VALUE
Density	ISO 1183	1.3 g/cm <sup>3</sup>
Filament Diameter	-	2.85 mm +/- 0.05
Color Availability	-	Black, Natural, Silver, White
Available Spool Sizes	-	2.5, 4.5, 8.0 kg
MECHANICAL PROPERTIES	TEST METHOD	VALUE
Tensile Strength	ISO 527	45 MPa
Tensile Modulus	ISO 527	3100 MPa
Elongation at Break	ISO 527	13%
Flexural Strength	ISO 178	60 MPa
Flexural Modulus	ISO 178	3000 MPa
Charpy Unnotched Impact Strength	ISO 179	40 kJ/m <sup>2</sup>
Charpy Notched Impact Strength	ISO 179	8 kJ/m <sup>2</sup>
THERMAL PROPERTIES	TEST METHOD	VALUE
HDT - B - 0.45 MPa	ISO 75	54 °C
Vicat Softening Temperature	ISO 306	116 °C
Glass Transition Temperature (T <sub>g</sub> )	DSC	60 °C
Melting Temperature (T <sub>m</sub> )	DSC	170 - 180 °C
<b>COMPLIANCE</b>	<input checked="" type="checkbox"/> <b>REACH Compliant</b>	<input checked="" type="checkbox"/> <b>RoHS Certified</b>
		<input checked="" type="checkbox"/> <b>FDA Compliant</b> (excluding silver color)

PROPERTIES	RECOMMENDED USAGE
Nozzle Temperature	195 - 205 °C
Bed Temperature	55 - 60 °C
Printer Compatibility	BigRep ONE, BigRep STUDIO, BigRep STUDIO G2, BigRep PRO
Fan Speed	50 - 100%
Surface Adhesion	<ul style="list-style-type: none"> <li>• Kapton (additional adhesion using glue, e.g. Magigoo)</li> <li>• BigRep SWITCHPLATE</li> </ul>
Drying	PRO HT is slightly hygroscopic. Recommended drying at 50 °C for 4 - 6 hours.
Storage and Shelf Life	Keep dry, avoid sunlight, and store at room temperature. Use BigRep SHIELD for best results. When stored properly, product has a shelf life of 24 months.
Handling	Use the BigRep Keep-Dry Box for best material printability.
Post-Processing	Wear gloves to avoid possible microdamage to skin. Use a dust mask and protective glasses when processing.
Support	<ul style="list-style-type: none"> <li>• Breakaway</li> <li>• BigRep BVOH</li> </ul>