bigrep **FILAMENT**

PRO HT



EASY PRINTING AND SUPPORT REMOVAL



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.



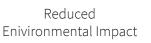


Easy to Print for Effortless Breakaway Wide Range of Uses Support Removal

Breakaway FDA and EU Cer Removal Food Safe

I FDA and EU Certified









PHYSICAL PROPERTIES	TEST METHOD	VALUE
Density	ISO 1183	1.3 g/cm ³
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 ²
Charpy Notched Impact Strength	ISO 179	8 kJ/m ²
THERMAL PROPERTIES	TEST METHOD	VALUE
HDT - B - 0.45 MPa	ISO 75	54 °C
Vicat Softening Temperature	ISO 306	116 °C
Glass Transition Temperature (Tg)	DSC	60 °C
Melting Temperature (Tm)	DSC	170 - 180 °C
COMPLIANCE	🔗 REACH Compliant	RoHS Certified State (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	 Kapton (additional adhesion using glue, e.g. Magigoo) BigRep SWITCHPLATE 	
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	BreakawayBigRep BVOH	