

Technical Data Sheet

3DOM Beer Filament

General Information

3DOM Beer Filament™- Beer Filled filament is a composite made of biodegradable thermoplastic and waste from the beer malting process. It prints rigid parts with little to no warping or curling. It prints similarly to our Ingeo™ PLA but with a unique multi-variant color and surface.

Printing Information

Printing with Beer filament will be similar to experiences printing with our Ingeo PLA. A print temperature of 190 to 220 degrees Celsius is our recommended starting point. Beer filament prints with virtually no warping on a non-heated build surface with a raft. If your printer does have a heated bed, setting it to around 50 degrees Celsius may help with first layer adhesion when printing without a raft. Print speed should remain between 50 and 120 mm/s and should be varied based on part size.

Beer filament can be printed with a raft. The default raft-part spacing on most slicers should be adequate for use with Beer Filament, but if you notice that the raft becomes difficult to remove, the raft-model spacing can be increased slightly to allow for easier removal.

Storage

Like all of our filaments, Beer filament comes in a vacuum-sealed resealable bag. In order to prevent the filament from absorbing moisture from the air, when the spool is not in use, place it back in the bag and seal it.

Values

Benefits of using Beer filament include increased eco-friendliness, unique surface finish, and the novelty of using a Beer-filled material.

Resin Typical Material Properties

Property	Standard*	Beer Filament	PLA**
Maximum Tensile Strength, MPa	ASTM D638	36	41
Tensile Strength at Yield, MPa	ASTM D638	15	37
Tensile Elongation, %	ASTM D638	5.8	1.8

*All test specimen were 3D printed to more accurately represent expected usage
** For comparison