

Fiberthree Safe Light

rev. February 2021

Article No. 7146 for 1,75mm filament/ Article No. 7149 for 2,85mm filament

Product Description

3D-filament drybox for hygroscopic or environmentally sensitive thermoplastics. The box is suitable for a filament spool of 200mm in diameter, which means for spools with up to 1kg filament.

The box is break-proof and airtight when locked. The box protects your filament from absorbing humidity.

Plugs for PTFE tubes of 4mm or 6mm will allow to feed the material to the printer simultaneously with minimized contact to outer air humidity.

A vision panel enables inspection of roll movement, checking remaining material and actual humidity level by the integrated hygrometer.

The spool guide has an integrated adjustable break to prevent uncontrolled winding of the filament caused by filament retraction.

General Information

Product	drybox for operation, storage and transport of 3D filaments
Properties	box in orange/ black, suitable for spools up to 1 kg vision panel made from scratchproof PMMA Art. 7146 for 1,75mm filaments/ 4mm pipes Art. 7149 for 2,85mm filaments/ 6mm pipes integrated hygrometer simple operation without batteries self-centering spool guide with integrated adjustable brake air- and waterproof at atmospheric pressure (for overpressure/ low pressure 100% tightness will not be assured)

Technical Details

Operating temperatur	up to 60°C
Weight without filament	1850 g
Outer dimensions of box	336mm x 300mm x 148mm
Pipe connectors	pneumatic plug for 4mm or 6mm (outer diameter of pipe)
spool operation	Inner diameter filament spool from 52 to 54 mm Outer diameter filament spool up to 200 mm width of filament spool up to 100 mm filaments 1,75 mm or 2,85 mm

Product



1. The box is airtight at atmospheric pressure with closed filament pipe. For overpressure/ low pressure the 100% tightness cannot be assured.
2. Humidity can enter through the pipe and during spool changes and might lead to an increase of humidity level over time. The Fiberthree Safe box does not provide any active drying - it's intended to keep your filament dry.
3. The hygrometer is foreseen to control humidity changes inside the box over time especially if you use the box for storage of sensitive filaments. The hygrometer is not calibrated.
4. For a humidity level above 30% we suggest to check the print quality and eventually dry your filament. We recommend vacuum- or convection heating chambers/ ovens for the drying process. Please follow the instructions of your filament manufacturer for best results.
5. The spinning resistance of the spool guide can be adjusted by the screw in the middle of the guide (to avoid uncontrolled spinning).
6. Use foreseen openings for spool access or placing small toolboxes.
7. Never use acetone based cleaners for the plastic glass.

Legal disclaimer

All given information is subject to our best knowledge and understanding. Hygrometer and other details may vary from shown model. Any liability based on the given information shall be excluded, except if and to the extent that we are liable under the German Product Liability Act ("Produkthaftungsgesetz").

Contact: Contact@fiberthree.com

www.fiberthree.com