

filabot

Melt Filter Nozzle "X"
MFNX
7/8"-14 Thread

Included:

X1 Nozzle
X2 Breaker Plate
X5 20 Mesh Support Screen (0.864 mm opening size)
X5 60 Mesh Filter Screen (0.229 mm opening size)
X5 80 Mesh Filter Screen (0.178 mm opening size)
X5 Internal Retaining Ring

Use:

The Melt Filter Nozzle is used to remove occasional debris and contaminants from extruded polymers. This will help prevent nozzle clogging issues when using the polymer in a 3D printer. The Melt Filter Nozzle also helps improve polymer output consistency and mixing of colorant additives. **The melt filter nozzle can not be used to filter heavily contaminated polymers.** Polymers with excess dirt, or contaminants like tape, paper, and glue can clog the filter too quickly and stop extrusion. Recycled plastic needs to be cleaned as thoroughly as possible before processing.

Maintenance:

Checking the amount of debris the screen has collected can be done by extruding a small amount of clear polymer (such as virgin PLA) and removing the nozzle. Debris will be visible on the screen through the clear polymer. Use this technique to determine the general contamination level of the polymer you are extruding. Do this by extruding a set amount of polymer and checking the screen. This will help determine how much polymer can be extruded before the screen should be changed. **Do not run purge material through the melt filter.** The screens and breaker plate can be cleaned by soaking them in a solvent (if the polymer being extruded is dissolvable) or by removing excess melted polymer and then burning off the remainder with a propane torch (burning polymer off the screens is not recommended as the heat may damage them). Use caution not to heat the breaker plate until it is red hot. **Warning: polymers are flammable, burning drops of heated polymer can burn you or ignite nearby items. Fumes from some burning polymers can also be very toxic. Use proper safety equipment and work in a safe environment for using an open flame.** Additional parts and screens can be purchased through Filabot.com.

