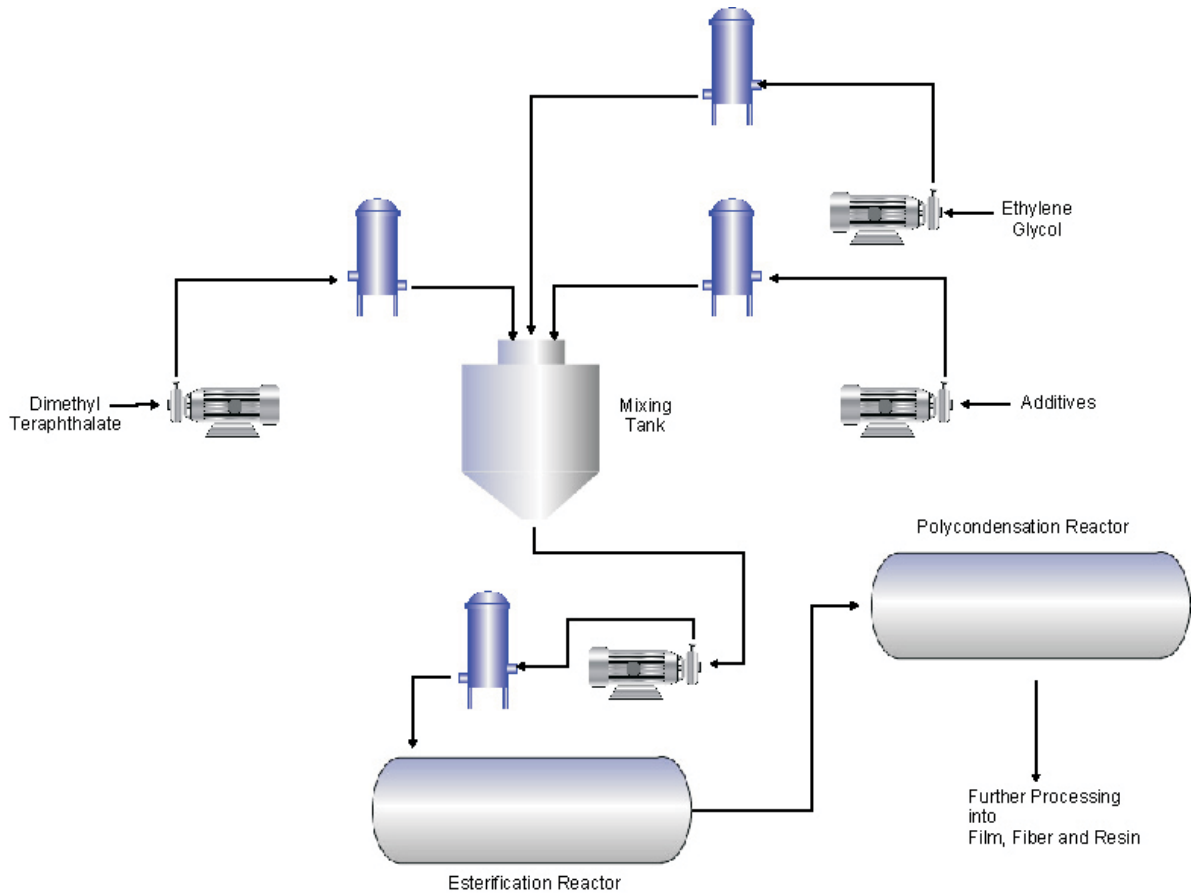





# CLASSIC

FILTER & EQUIPMENT LTD

## POLYESTER (DMT)



### PRODUCTS

-  Filter Vessel
-  Centrifugal pump
-  Sensor

### PROCESS DESCRIPTION

Dimethyl Terephthalate is combined with Ethylene Glycol. These two raw materials react via transesterification to produce a Terephthalate compound and methanol. This product is heated to burn off the methanol. Additional heat is applied to the mixture to produce Ethylene Glycol and Polyethylene Terephthalate.



The Dimethyl Terephthalate, Ethylene Glycol and any additives should be filtered prior to mixing to remove any contaminants that might impede the reaction process. Classic Filter and Equipment can recommend the right filter to suit your application.



Classic Filter and Equipment recommends filtering the polymer after the esterification and condensation processes to remove any contaminants before final processing. The temperature at this point may preclude the use of filters made from polymeric material. In this case we would recommend the installation of metallic filters.



Pumps are used throughout the manufacturing process to move raw materials and finished product from one stage of the process to the next. At Classic Filter and Equipment, we offer centrifugal and AODD style pumps to meet your pumping needs.



Sensors are used in the manufacturing process to monitor and control pH of the various chemicals in the process. Classic Filter and Equipment offers pH sensors that are well suited for the rigorous requirements of this application. We can, also, provide sensor housings that will help protect the sensors.

**CLASSIC FILTER AND EQUIPMENT, LTD.**

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