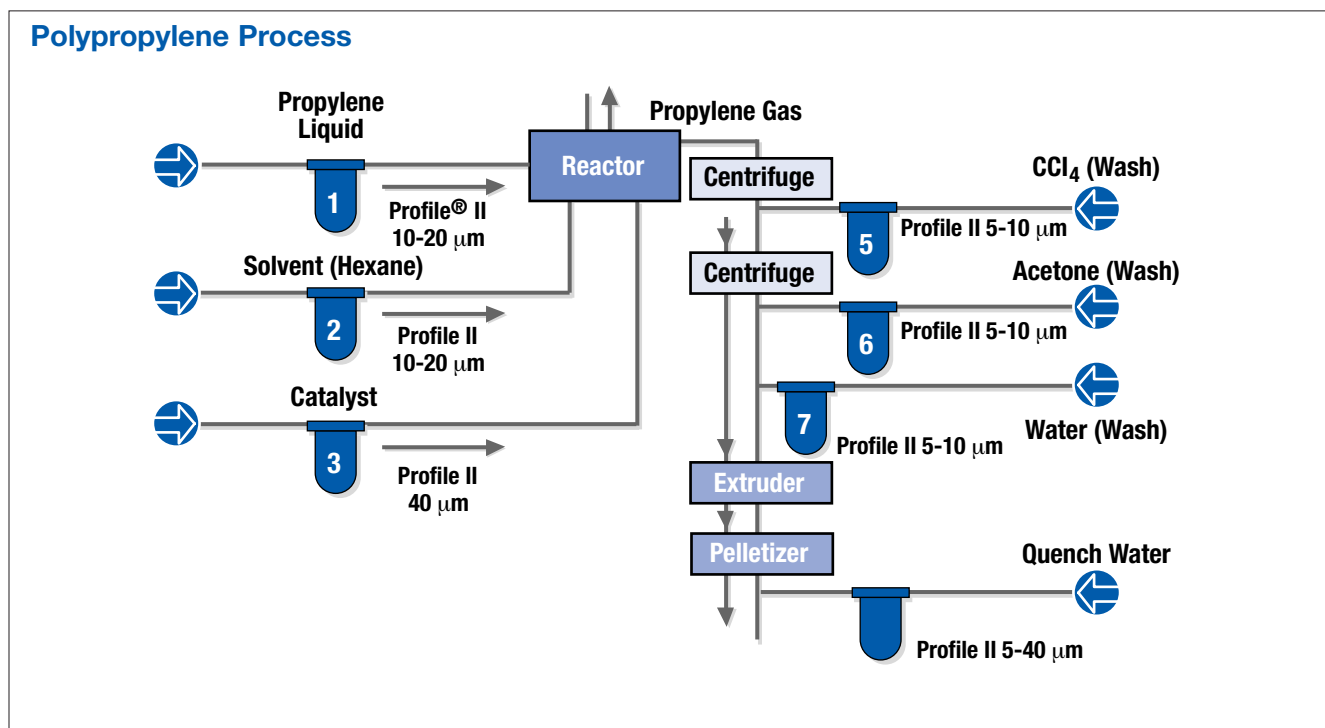


## Wash and Quench Water Filtration Polymer Plants



### Application Background

Polymers such as polypropylene, polyethylene, polyester and polyvinyl chloride are initially manufactured in pellet form. The formation of pellets takes place after the resin has been polymerized in the reactor vessel and extruded through a pelletizer. Quench water is used to help in the pellet formation and must be filtered to maintain polymer quality. Treated city water and river water are the main sources used for the quench water. Proper filtration is necessary to remove sand, iron, and organic material to prevent water contaminants from *flashing* onto the pellet surface.

Following pellet formation, wash water is used to remove airborne debris that might adhere to the pellet surface. This water should also be filtered to maintain a high quality polymer pellet. *Lack of filtration can result in a lower quality product, reducing its market value.*

### Pall Product Recommendations

Profile® II Filter, 5-40 µm, grades of any style

### Mini-Markets

Any polymerization process (e.g., Polyethylene, Polypropylene, PVC)

### Literature References

Profile II Filter Guide, Literature code: PRO 400

Profile II Element Data Sheet, Literature code: E1



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