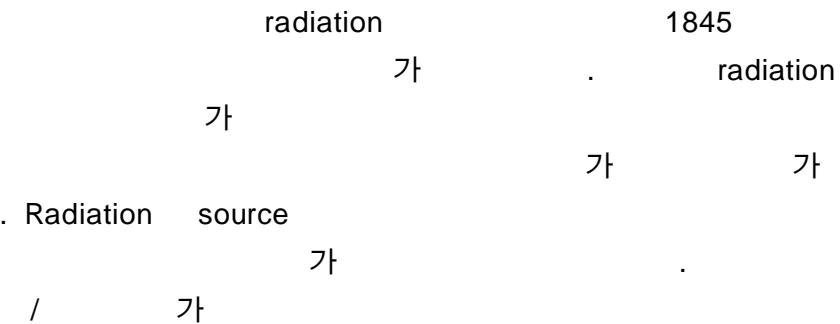


Spinning disc reactor

Spinning disc reactor(SDR)

Newcastle



1.

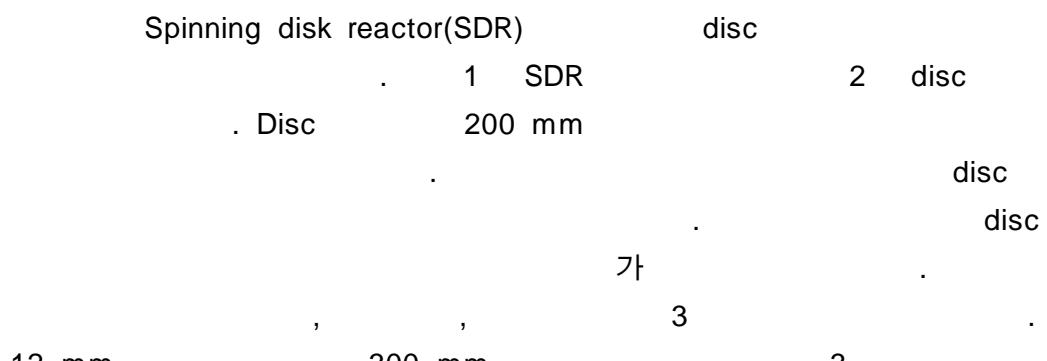
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3.

4.

Radiation

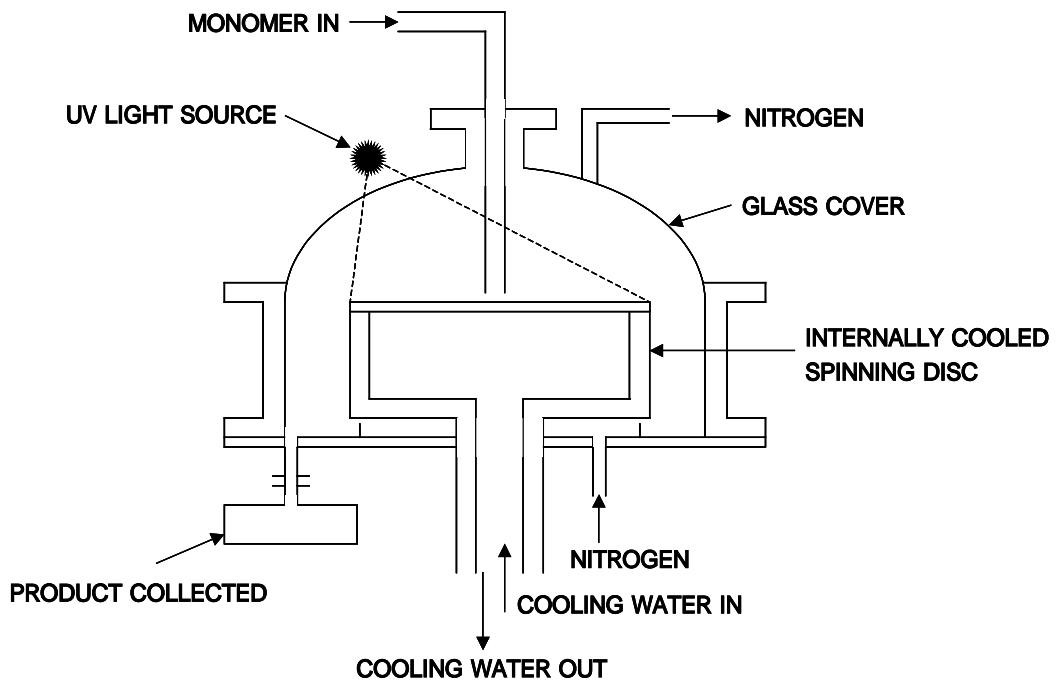
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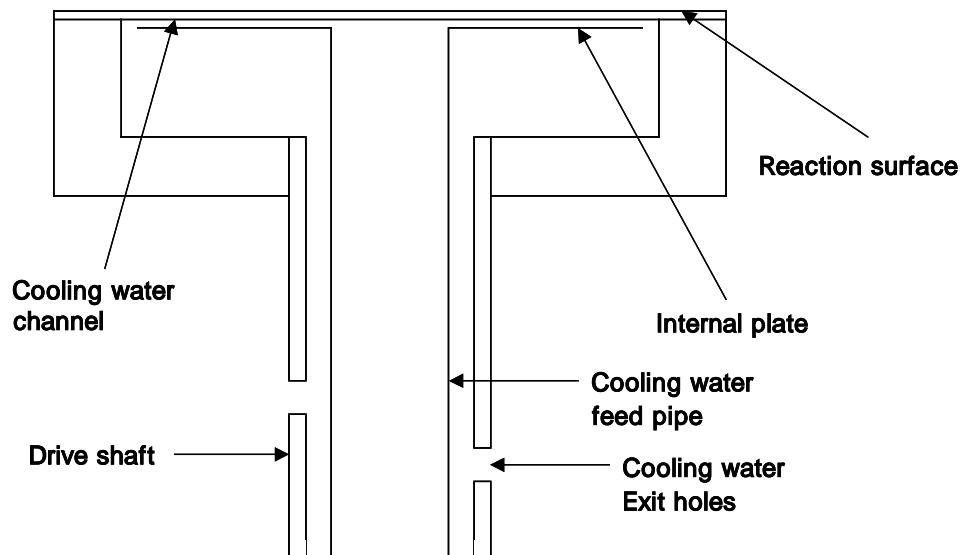
butyl acrylate

360

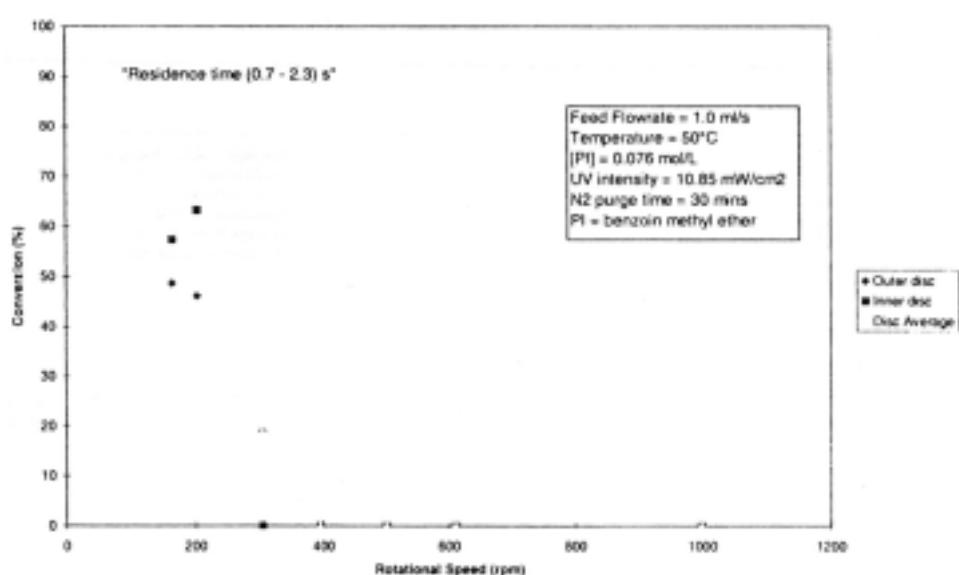
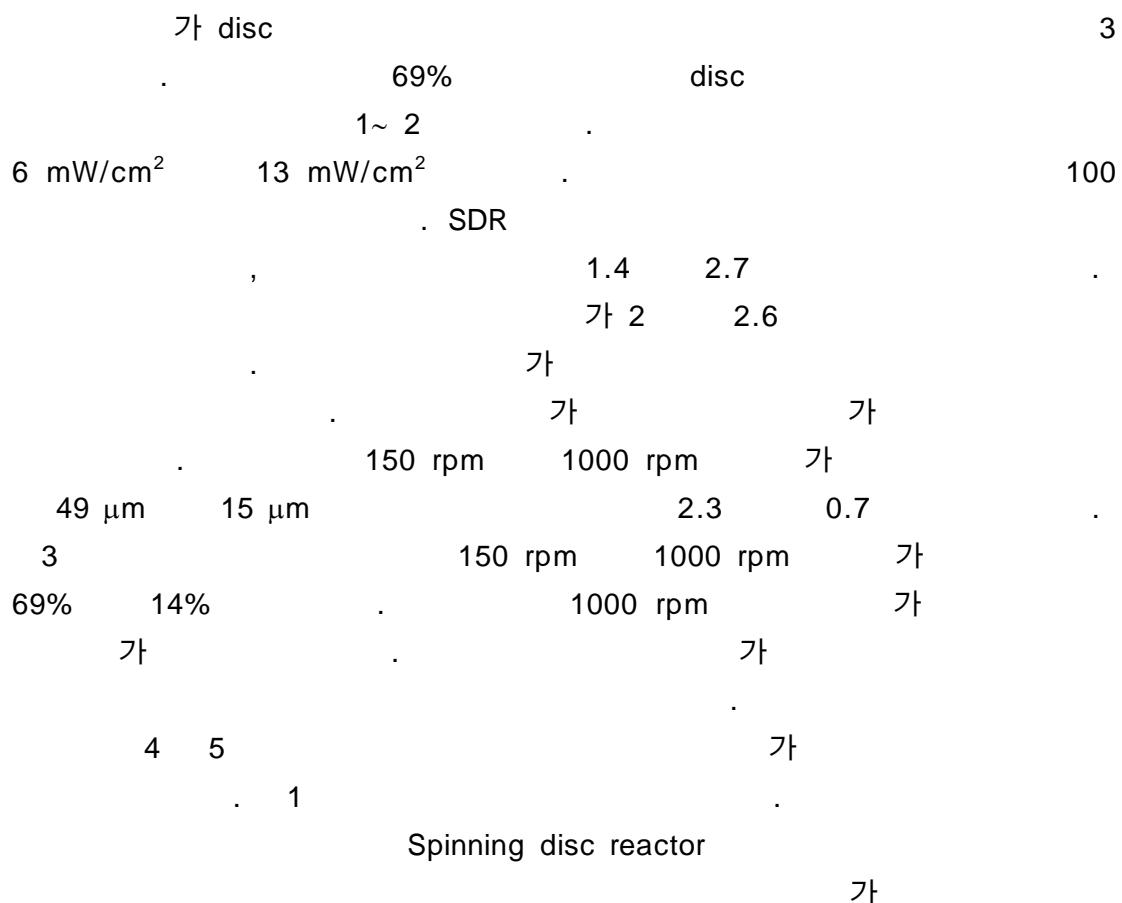
nm



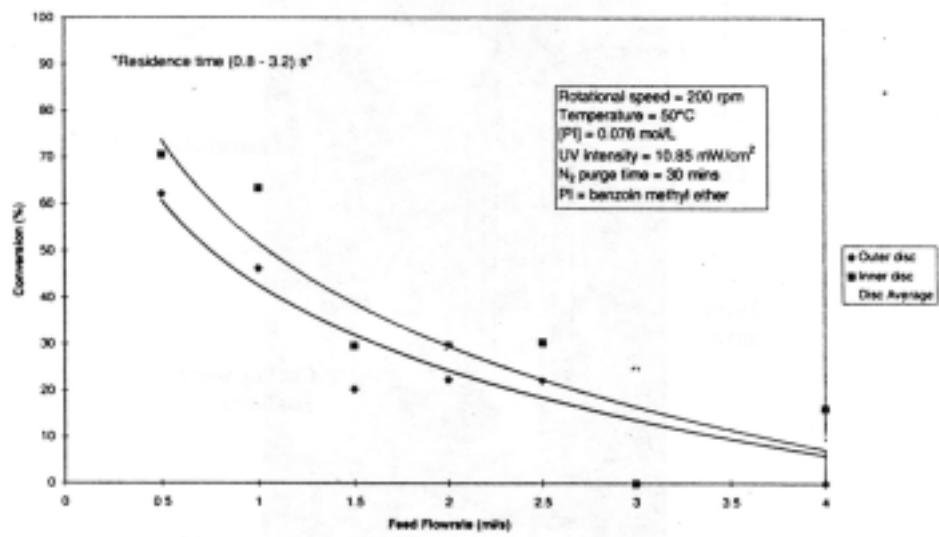
1. Spinning disk reactor



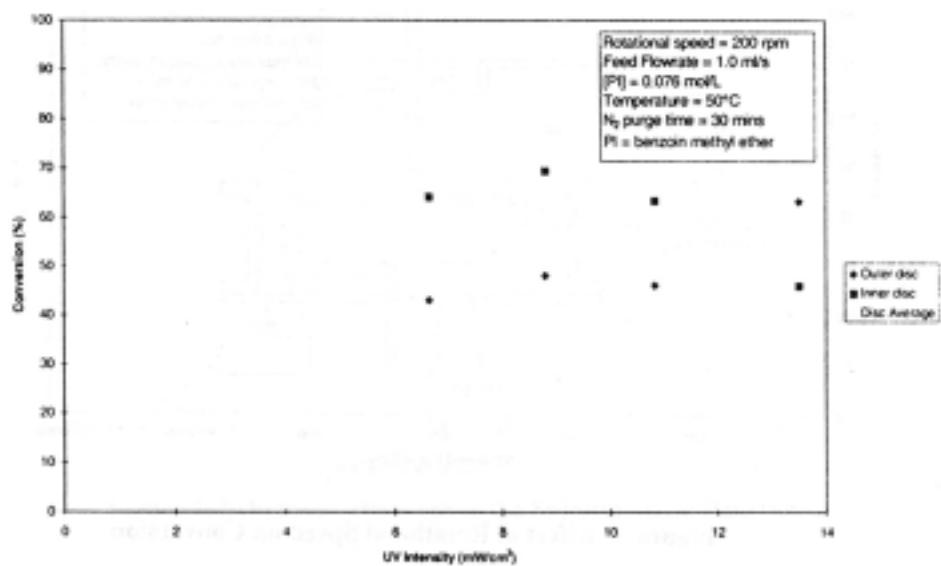
2. Spinning disc reactor disc



3. 가



4. 가



5. 가

1.

Variable	Range and Units	Observed Effect
Rotational Speed	150-1000 rpm	Increasing trend in conversion, decreasing trend in molecular weight, no effect on polydispersity index.
Feed flow	1 - 4 ml/s	Decreasing trend in conversion, definite trends in molecular weight and polydispersity index.
Photo-initiator conc.	0-6 wt%	Definite trends in conversion and molecular weight, no trend in polydispersity index.
Temperature	17 - 60	No distinct trends in conversion, molecular weight or polydispersity index.
Photo-initiator type	N/A	Definite effect on conversion and molecular weight.
UV Intensity	6-13 mW/cm ²	No obvious trends in conversion, molecular weight or polydispersity index.