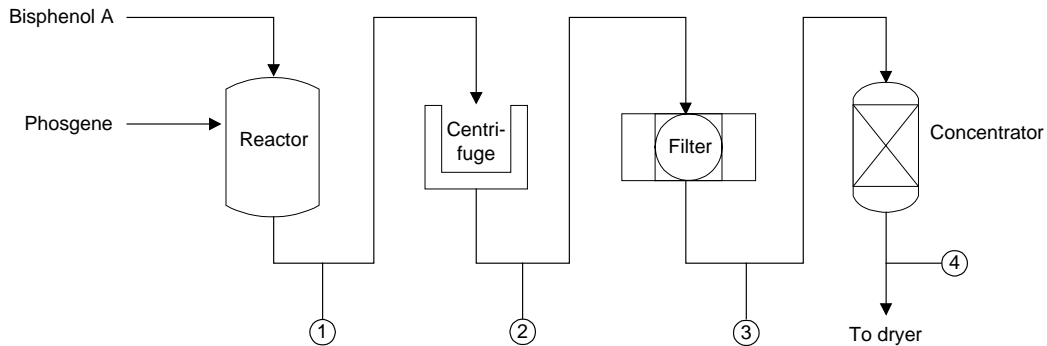


**Polycarbonate**



Positions where K-Patents PR-01-S is used:

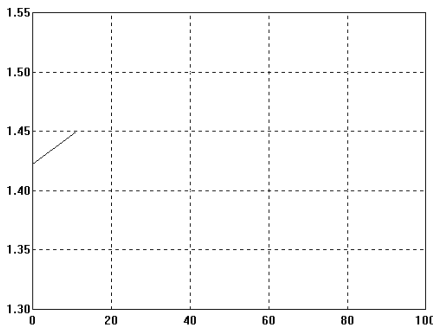
- ① After reactor
- ② After centrifuge
- ③ After filtration
- ④ After concentrator

**Polycarbonate**

*Typical end products*

*Bottles, food and drink containers, windows, computer and TV housings, furnishing etc.*

*Chemical curve: R.I. per Conc% b.w.*



R.I. Ref. temp. 23°C

Polycarbonates are a group of thermoplastics characterized by their toughness, high softening point and clarity. A typical polycarbonate is formed from bisphenol A and phosgene.

Typical end-products are to be found in bottles, windows and the electronic industry. There are over 10 polycarbonate manufacturers in the world.

**Application**

LEXAN is a tradename of GE Plastics' polycarbonate. It is manufactured by reaction of bisphenol A and phosgene in a methyl chloride solvent. After reaction the polymer solution is centrifuged and filtered. Finally the polymer solution is concentrated and dried.

K-Patents Process Refractometer PR-01-S is used to measure the concentration of resin in solvent and control the manufacturing process.

Typical measurement range is 5-30% polymer in solvent and the normal process temperature about 40°C (104°F).

**Introduction**

**Installation**