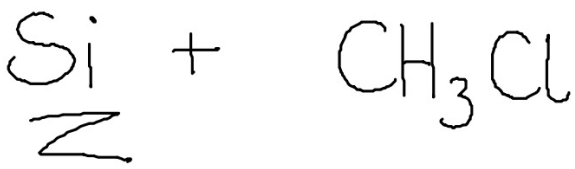
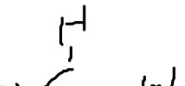
Herstellung von

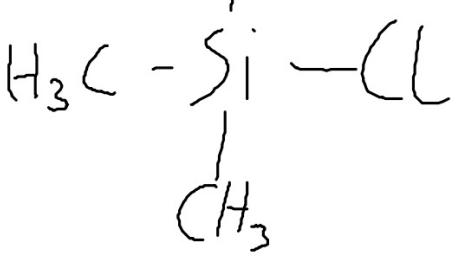
Schritt 1: Bildung des Monomers



→ versch. Methylchlorsilane

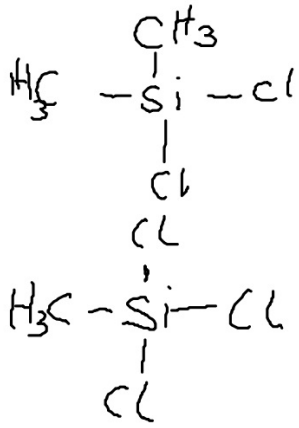


· Trimethylchlorsilan



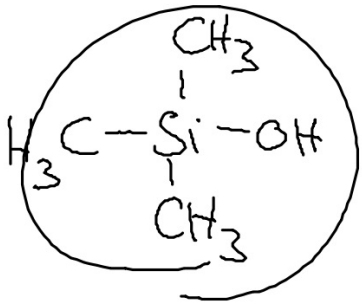
X · Dimethyldichlorsilan

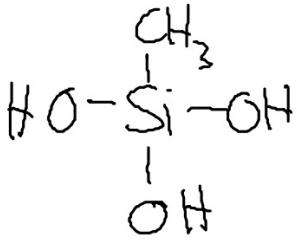
· Methyltrichlorsilan

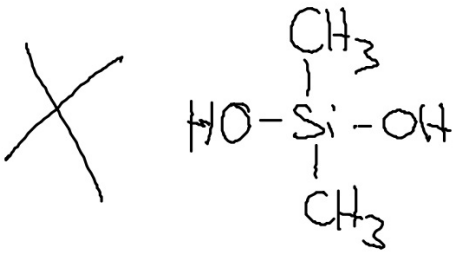


Substitution des Cl

Zugabe H_2O

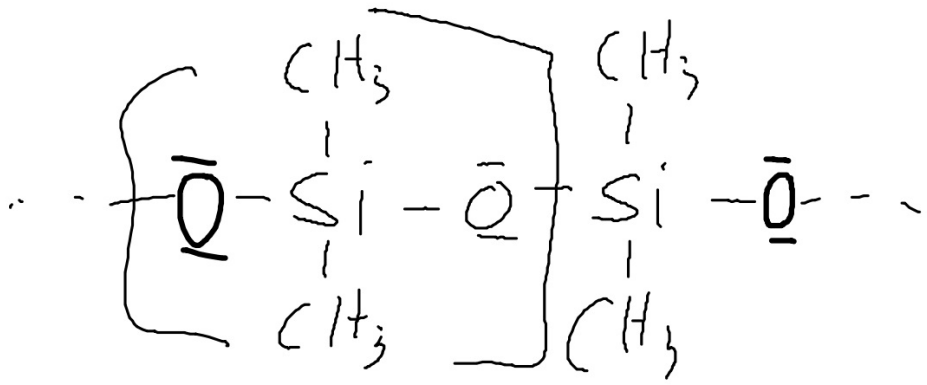






Schritt 2: Polyreaktion

Polykondensation



Je nach Zahl der OH-Gruppen im Molekül können sich bei der Poylkondensation Thermoplaste (Silikonöl), Elastomere (Silikonkautschuk) oder Duroplaste (Silikonharz) ergeben.