

### **Abstract**

The present invention relates to an integrated process for the preparation of a polyurethane, comprising at least the following steps:

- (1) epoxidation of propene with at least one hydroperoxide to give propylene oxide;
- (2) reaction of the propylene oxide from step (1) or a mixture of the propylene oxide from step (1) and at least one further alkylene oxide to give a polyether alcohol using at least one multimetal cyanide compound as a catalyst;
- (3) reaction of a polyether alcohol from step (2) with at least one isocyanate;

and polyurethanes which can be prepared by a novel process and moldings which contain a novel polyurethane.



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