

Abstract

In a process for the preparation of a prepolymeric epoxy resin mixture containing oxazolidinone structures, a filler-containing, thermally polymerisable reaction resin mixture of polyepoxy resin, comprising a mixture of di- and polyfunctional epoxy resins, and polyisocyanate resin having a molar ratio of epoxy groups to isocyanate groups of > 1 is fed to a continuous reactor. The reaction resin mixture is then reacted - with the use of substituted imidazole as a reaction accelerator, having a content of 0.5 to 2.5%, based on the polyepoxy resin - at reaction temperatures up to 200°C, the temperature of the reactor being 140 to 190°C, and the extrudate is then cooled to a temperature of $< 50^\circ\text{C}$ with the aid of a cooling apparatus mounted at the outlet nozzle of the reactor.

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