~~CLAIMS~~

C L A I M S

1. A process for the production of a polyurethane foam having a resilience of at least 50%, said process comprising reacting

(i) a first polyether polyol comprising polyether chains containing at least 3% and no more than 20% ethylene oxide content wherein the remainder of the alkylene oxide content in the polyether chains is derived from propylene oxide and/or butylene oxide, and having a primary hydroxyl content of no more than 20%, a hydroxyl value of at least 40 and a nominal functionality which is at least 2.5 and at most 3.0~~;~~

, wherein the first polyether polyol is prepared by ring-opening polymerisation of alkylene oxides onto a hydroxyl containing starting material in the presence of a composite metal cyanide complex catalyst;

(ii) a second polyether polyol comprising polyether chains containing at least 50% ethylene oxide content wherein the remainder of the alkylene oxide content in the polyether chains is derived from propylene oxide and/or butylene oxide~~; and~~ , and having a nominal molecular weight of at least 2500 and a nominal functionality of at most 4.5, wherein the weight percentage ratio of the first polyether polyol to the second polyether polyol is at least 5:1; and (iii) one or more aromatic polyisocyanates, in the presence of one or more catalysts having gelling and/or blowing activities.

~~(iii) one or more aromatic polyisocyanates, in the presence of one or more catalysts having gelling and/or blowing activities.~~

2. A process as claimed in claim 1, wherein the first polyether polyol comprises at least 80% propylene oxide content~~.~~.

3. A process as claimed in ~~any one of claims~~claim 1 ~~to~~or claim 2, wherein the second polyether polyol contains at least 65% ethylene oxide content.

4. A process as claimed in any one or claims 1 to 3, wherein the primary hydroxyl content of the second polyether polyol is more than 20%.

5. A process as claimed in any one of claims 1 to 4, wherein the remainder of the alkylene oxide content in the polyether chains of the second polyether polyol are derived from propylene oxide.

6. A process as claimed in any one of claims 1 to 5, wherein the weight percentage ratio of the first polyether polyol to the second polyether polyol is at least 18:1.

~~7. A foam obtainable by the process of any preceding claim.~~