ABSTRACT OF THE DISCLOSURE

The invention discloses a flexible high-resilience polyurethane foam which has improved impact resilience and compression set, excellent effect on the reduction of transmissibility at 6 Hz and also improved mechanical strengths even under a reduced amount of a catalyst and is prepared by using, as an organic polyisocyanate composition, a mixture having a specified ratio of tolylene diisocyanate to polymethylenepolyphenyl isocyanate having a specific benzenoid composition or by using an isocyanate terminated prepolymer obtained by reacting the mixture with polyoxyalkylene polyol which has specific structure and is used for modification, and by using polyalkylene polyol which satisfies specific conditions in a hydroxyl value, monool content, and head-to-tail coupling selectivity; and a preparation process of the flexible high resilience polyurethane foam.

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