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HARD POLYURETHANE AND THE PROCESS TO OBTAIN IT.(U)
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EDITED TRANSLATION

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Central Institute of Chemistry, Bucharest, Romania

Patents

Hard polyurethane and the process to obtain it
(Poliuretan dur şi procedeu de obţinere a acestuia)

The Socialist Republic of Romania Patent Number 56149

The invention refers to the hard polyurethane and the process to obtain it.

The hard polyurethane has a block-copolymer structure of polyester-polyurethane, and is obtained through the solubilization in a first stage of about 6 mols 4.4'-dibenzyl-diizocianate as a diizocianic component in 1 mol poly(ethylenglycoladipat) with a molecular weight of about 2,000; in a second phase, the product of the reaction is treated with 4.5 mols of glycoles and the fluid mass of the reaction is poured into moulds; the finishing takes place at 120° C.

The invention presents the following advantages:

- it uses an easily accessible diizocianate;
- it extends the period of gellification, which enables a comfortable processing;

- the polyurethane obtained presents superior physical and mechanical properties.

File number 61753 Int. cl^2: C08 G71/04
Registration date: 12/4/1969
Publication date: 10/1/1977

Holder of Title: The Institute of Macromolecular Chemistry "Petru Poni", Iaşi.

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