

Title (en)

BIODEGRADABLE POLYESTER URETHANES, METHOD FOR THE PRODUCTION AND USE THEREOF

Title (de)

BIOABBAUBARE POLYESTERURETHANE, VERFAHREN ZU IHRER HERSTELLUNG SOWIE IHRE VERWENDUNG

Title (fr)

POLYESTERURETHANES BIODEGRADABLES, LEUR PROCEDE DE PREPARATION AINSI QUE LEUR UTILISATION

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Application

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Abstract (en)

[origin: US6228969B1] The present invention concerns biodegradable linear polyester urethanes as well as biodegradable crosslinked polyester urethanes issuing from the linear polyester urethanes in such a way that they are crosslinked by diisocyanate bridges. By varying the degree of crosslinking it is possible to adjust the physical, chemical and biological properties in the crosslinked polyester urethane as defined by the invention in a targeted manner. In particular, it is possible to vary the rate of biodegradation of said crosslinked polyester urethane because the biological degradation takes place at a slower rate as the degree of crosslinking increases. Furthermore, the object of the invention is a method of producing the polyester urethanes as defined by the invention, as well as its application in the form of sheets or foils, shaped rubber articles, containers, packaging materials, in the field of galenic pharmacy; and in the form of adhesives and adhesive tapes and the like. Furthermore, the invention relates to polymer blends containing the polyester urethanes as defined by the invention.

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