

ALIEN PROPERTY CUSTODIAN

PROCESS FOR THE MANUFACTURE OF HYDROPHILIC POLYMERIZATION PRODUCTS OF THE SUPERPOLYAMIDE TYPE

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This invention relates to the manufacture of hydrophilic synthetic linear condensation products of the superpolyamide type.

In my copending U. S. patent application Ser. No. _____ (corresponding to German patent application I. 65 184 IVd/120, filed July 18, 1939) it has been shown that by condensation of ϵ -amino carboxylic acids with at least 4 carbon atoms between the amino- and the carboxyl groups with the hydrohalides of ϵ -amino carboxylic acids with the mentioned 3 carbon atoms between the amino- and the carboxyl groups hydrophilic super polyamides are obtained which are swellable or colloiddally soluble in water and assume the state of sole in an aqueous solution at elevated temperature, but become a gel on cooling.

Example

70 grams hexamethylene diammonium sebacate (2 mols) are thoroly mixed with 30 grams glycollethylester hydrochloride and heated after careful displacement of the air by carbon-dioxide in a carbon-dioxide atmosphere at 190-200°C for 17 hours. The clear melt solidifies after cooling into a red-brown resin. In the heat it is clearly soluble in water with dark red color. The solution solidifies into a clear paste after cooling. This highpolymeric condensation product is suitable as textile auxiliary agent, as diluent for printing inks and similar purposes.

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