

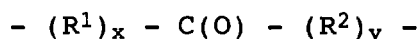
Multimodal polyamides, polyesters and polyesteramides

Abstract

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A thermoplastic polymer mixture comprising m polymers P_n , where m is a natural number greater than 1 and n is a natural number from 1 to m , where n is a natural number from 1 to m , where each of the polymers has one or more functional groups of the structure

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present as repeat units in the main chain of polymer P_n where

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x and y , independently of one another, are 0 or 1, and $x + y = 1$

R^1 and R^2 , independently of one another, are oxygen or nitrogen bonded into the main polymer chain,

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where in the differential distribution curve $W(M)$ determined to DIN 55672-2 in hexafluoroisopropanol as eluent the polymer mixture has at least two maxima of the relative frequency W ,

25 and after aging of the polymer mixture at the melting point of the polymer mixture determined to ISO 11357-1 and 11357-3 for 5 minutes, the polymer mixture has in the differential distribution curve $W(M)$ determined to DIN 55672-2 in hexafluoroisopropanol as eluent at least 2 maxima of the relative frequency W , and

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the position of the maxima here after aging of the polymer mixture at the melting point of the polymer mixture is within three times the recurrent standard deviation $\sigma(r)$ of M_p in percentage of the value measured to DIN 55672-2, based on the position

35 of the maxima prior to aging of the polymer mixture at the melting point of the polymer mixture.

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