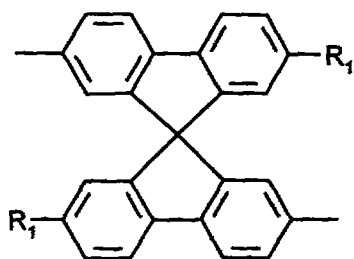


Abstract

Soluble poly(bis-9,9'-fluorenes) comprise identical or different structural repeating units of the formula I,



(I),

where

the two R_1 s are, independently of one another, H, C_1 - C_{18} alkyl, C_6 - C_{14} aryl, C_7 - C_{15} aralkyl, C_1 - C_{18} alkoxy, R_2 -(O - C_nH_{2n}) $_m$ - O -, C_1 - C_{18} alkylthio, C_1 - C_{18} dialkylamino, $-C(O)OH$, $-C(O)O$ - C_1 - C_{18} alkyl, $-C(O)-N(C_1-C_{18}alkyl)_2$, $-SO_3H$, $-SO_3-C_1-C_{18}alkyl$, $-SO_2-N(C_1-C_{18}alkyl)_2$, C_1 - C_{17} alkyl- $C(O)-O$ - or C_1 - C_{17} alkyl- $C(O)-$, R_2 is H or C_1 - C_{12} alkyl, n is from 2 to 6 and m is from 1 to 12.

The polymers can be used either alone or in admixture with at least one additional fluorophore whose absorption band overlaps the emission band (fluorescent emission) of the polymer of the formula I as active radiative layer for light-emitting diodes, VDUs and display elements.