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The invention relates to data carriers for image electron beam recording and may find its application in holography and other fields of modern engineering as electron-beam resist.

The data carrier consists of a polymeric electron-sensible layer made of copolymers of carbazolyalkyl methacrylates-methyl methacrylates, containing 20...40 mol% of carbazolyalkyl methacrylate and additionally 10...12% of triiodomethane. The copolymers are obtained by transesterification of polymethyl methacrylate with hydroxyalkyl carbazols in the presence of acid catalysts or by radical polymerization of the carbazolyalkyl methacrylate-methylmethacrylate monomers.

The result consists in the elaboration of a new data carrier permitting to record holographic images with the diffraction efficiency of 8...10%.

Claims: 1

Fig.: 2