

222.Title: High-frequency dynamics of type B glass formers investigated by broadband dielectric spectroscopy

Author: Kastner, S; Kohler, M; Goncharov, Y; Lunkenheimer, P; Loidl, A

Source: JOURNAL OF NON-CRYSTALLINE SOLIDS

Volume:357

Issue:2

Pages: 510-514

Publication year: 2011

Document type:Journal article (JA)

Abstract: We present the results of broadband dielectric spectroscopy on two glass formers with strong Johari-Goldstein beta-relaxations. In addition to the alpha- and beta-relaxation dynamics, the extension of the spectra up to 1 THz also allows revealing information on the fast beta-process in this class of materials. There is clear evidence for a fast process contributing in the region of the high-frequency loss minimum, which is analyzed in terms of the idealized mode-coupling theory.