

Agar Gel and Magma in the Earth -viscoelastic Fracturing-

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The magma transport in viscoelastic materials was investigated by carrying out analog experiments. Agar gel was used as a model material of viscoelastic materials. The experiment of fluid injection into the Hele-Shaw cell filled with agar gel was performed, and the fluid intruding patterns were monitored by CCD video camera. The viscoelastic properties of agar gels, e.g., viscosity, tensile strength and so on, were studied.