

On Poiseuille flow for shear-thickening fluids

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Shear thickening fluids are liquids that stiffen as the applied stress increases. If many of these types of fluids follow a monotonic rheological curve, some experimental and numerical studies suggest that certain fluids, like cornstarch, may exhibit a non-monotonic, S-shaped rheology. In this work, we experimentally and numerically study the implications of such rheology for the simple Poiseuille flow configuration.

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