

ABSTRACT

The invention relates to a field of polymer preparation and discloses a method for promoting phase-separation of polymer solution. The phase-
5 separation method of polymer solution of the invention comprises: at least a portion of the polymer solution is subjected to a heat treatment under flowing so that the polymer solution is divided into a clear liquid phase and a concentrated liquid phase, wherein the Reynolds number of the polymer solution flowing is 0.2-30. By performing the heat treatment under specific
10 Reynolds number conditions, the invention permits to reduce the temperature of phase-separation of solution, reduce the time of phase-separation of solution, and significantly reduce the material consumption and energy consumption of the entire process, compared with the existing technology that only performs phase-separation through heat treatment.

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Figure 1