

Roll for rolling machines used in processing of polymer materials comprises a central body with an axial channel for coolant circulation, journal shafts, and a barrel with annular projections at its ends, an outer shell, as well as a heat-insulating insert located between the outer shell and the central body and shaped as a ring-shaped circular cylinder, with longitudinal channels on its outer surface connected to the central body's axial channel via intermediate channels. The thermal insulation insert consists of at least two annular circular cylindrical sectors fixed relative to the central body, each of which has a honeycomb structure open toward its inner surface. The intermediate channels are radial and located in the annular projections of the barrel.