In this study, the effect of the ratio of mineral fillers on the properties of polymer concrete was investigated. The polypropylene, glass, carbon and steel were used as the phase material on production of polymer concrete. The polymer concretes was prepared using polyester types of resin and the phase materials at the six different rations (0%-3%-6%-9%-12%). The reaction temperature test, Schmidt surface hardness, ultrasonic pulse velocity, flexural and compressive strength tests were performed on the prepared mixtures and samples. It has been proposed that the fibers should be used for increasing the bending strength and prevent of occurring cracks due to the reaction temperature in the polymer concrete. It is concluded that it should be up to 6% although utilization rate changes according to types of fiber and resin in the polymer concrete.