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Abstract In this thesis, the influence of sintering temperature on the properties of soft PZT-base ceramics was discussed. The

density of the sintered ceramics reach a maximum value nearly equally to 98% of theoretical value at 1200oC. The crystal

structure of all the sintered ceramics were perovskite, but the tetragonality (c/a ratio) was increase with increasing of sintering

temperature. The variation of dielectric constant and planer coupling factor was the same as that of density, it was increases with

increasing of sintering temperature, and reach a maximum value at 1200oC, then decrease with increasing of sintering

temperature. The maximum value of dielectric constant and planar coupling factor in this study were 2080 and 0.6, respectively.
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