Neutron Diffuse Scattering Measurements of PZT D. PHELAN, P.M. GEHRING, J. RODRIGUEZ, C. STOCK, NIST Center for Neutron Research, X. LONG, Y. XIE, Z.-G. YE, Simon Fraser University — Neutron diffuse scattering measurements were performed on a single crystal of PbZr_{0.675}Ti_{0.325}O_3. The data is compared and contrasted with other Pb-based piezoelectrics, such as the relaxor PbMg_{1/3}Nb_{2/3}O_3, and is discussed within the context of random fields.