
No. 1C-c48 $\text{PbTiO}_3\text{--PbZrO}_3\text{--Ba}_x\text{Nb}_{4x/5}\text{O}_3$

1b Phase diagram: Fig. 1C-c48-001, Fig. 1C-c48-002.

3a Unit cell parameter: Fig. 1C-c48-003.

5a Dielectric constant: Fig. 1C-c48-004.

9a Transmittance: see

81Miu

b Electrooptic effect: Table 1C-c48-001.

Table 1C-c48-001. $(\text{Pb}_{1-x}\text{Ba}_x)(\text{Nb}_{4x/5}(\text{Zr}_y\text{Ti}_{1-y})_{1-x})\text{O}_3$ (ceramics). r_c : linear electrooptic coefficient [81Miu].

Composition		r_c [$\cdot 10^{-10} \text{ mV}^{-1}$]
x	y	
0.15	0.49	4.0
0.15	0.50	6.4
0.15	0.52	8.0
0.15	0.53	10.5
0.145	0.50	3.2
0.168	0.46	2.2

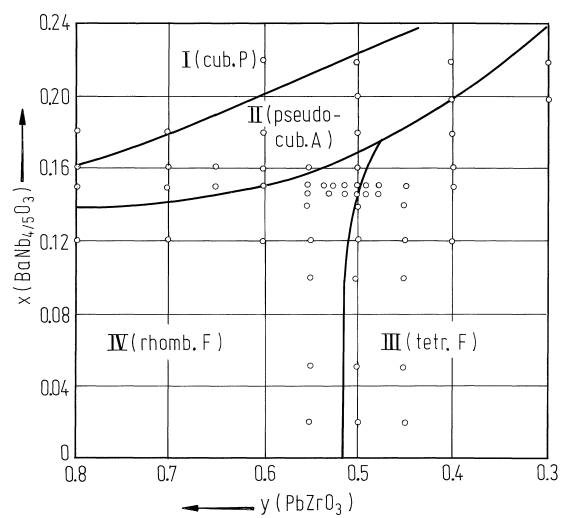


Fig. 1C-c48-001. $(\text{Pb}_{1-x}\text{Ba}_x)(\text{Nb}_{4x/5}(\text{Zr}_y\text{Ti}_{1-y})_{1-x})\text{O}_3$ (ceramics). Phase diagram [81Miu].

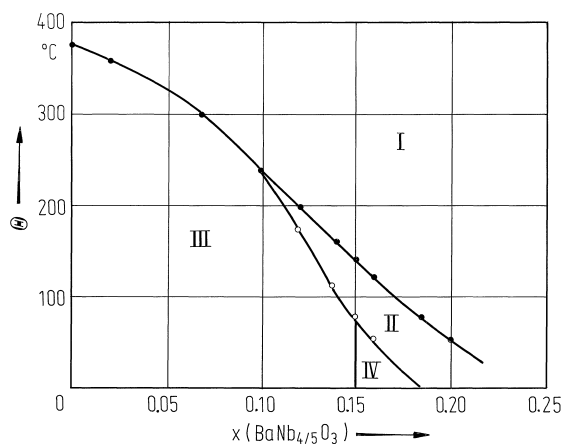


Fig. 1C-c48-002. $(\text{Pb}_{1-x}\text{Ba}_x)(\text{Nb}_{4x/5}(\text{Zr}_{0.5}\text{Ti}_{0.5})_{1-x})\text{O}_3$ (ceramics). Θ vs. x [81Miu].

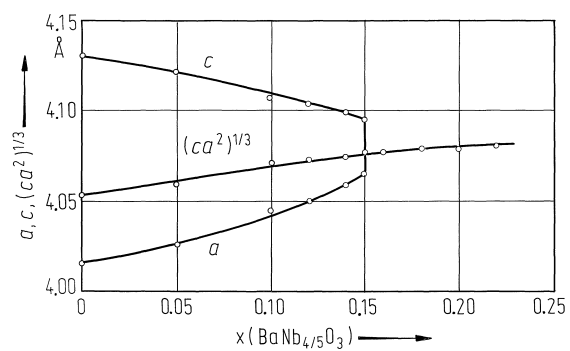


Fig. 1C-c48-003. $(\text{Pb}_{1-x}\text{Ba}_x)(\text{Nb}_{4x/5}(\text{Zr}_{0.5}\text{Ti}_{0.5})_{1-x})\text{O}_3$ (ceramics). a , c , $(a^2c)^{1/3}$ vs. x [81Miu].

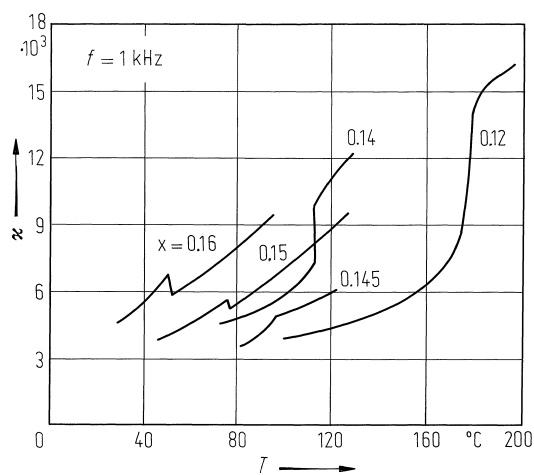


Fig. 1C-c48-004. $(\text{Pb}_{1-x}\text{Ba}_x)(\text{Nb}_{4x/5}(\text{Zr}_{0.5}\text{Ti}_{0.5})_{1-x})\text{O}_3$ (ceramics). κ vs. T [81Miu]. Parameter: x .

Reference

- 81Miu Miura, S., Yokosuka, M., Ochiai, T., Marutake, M.: Jpn. J. Appl. Phys. **20**, Suppl. 20-4 (1981) 83.