

No. 1B-d11 $\text{Pb}(\text{Ni}_{1/3}\text{Ta}_{2/3})\text{O}_3$
($M = 395.4$)

1a	Ferroelectricity in $\text{Pb}(\text{Ni}_{1/3}\text{Ta}_{2/3})\text{O}_3$ was found by Bokov and Myl'nikova in 1960.		60Bok
b	phase	II	I
	state	F	P
	crystal system		cubic
	space group		$\text{Pm}3\text{m} - \text{O}_\text{h}^1$
	$\Theta [^\circ\text{C}]$	−180 (average)	
	Transition is diffuse phase transition smeared around −180 °C.		
	Color: green.		60Bok
2a	Crystal growth: flux method with PbO .		60Bok
3a	Crystal structure: disordered perovskite, $a = 4.01 \text{ \AA}$ at RT.		60Bok
5a	Dielectric constant: Fig. 1B-d11-001.		

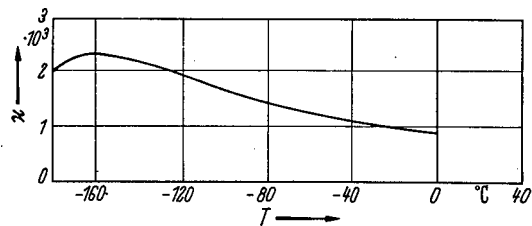


Fig. 1B-d11-001. $\text{Pb}(\text{Ni}_{1/3}\text{Ta}_{2/3})\text{O}_3$. κ vs. T [60Bok]. $f = 450 \text{ kHz}$.

Reference

60Bok Bokov, V.A., Myl'nikova, I.E.: Fiz. Tverd. Tela **2** (1960) 2728; Sov. Phys. Solid State (English Transl.) **2** (1961) 2428.