

substance: titanium oxide (TiO₂)

property: dielectric constants in rutile

$\epsilon(0)$	257	$\parallel c, T \rightarrow 0$	for temperature dependence, see Fig. 1	61P
	170	$\parallel c, \text{RT}$		
	111	$\parallel a, T \rightarrow 0$		
	86	$\parallel a, \text{RT}$		
$\epsilon(\infty)$	8.427	$\parallel c, \text{RT}$		51C
	6.843	$\parallel a, \text{RT}$		

References:

- 51C Cronemeyer, D. C.: MIT Laboratory for Insulation Research Rept. 46, 1951.
61P Parker, R. A.: Phys. Rev. 124 (1961) 1719.

Fig. 1.

TiO₂. Static dielectric constant vs. temperature for the [100] and [001] directions [61P].

