

# ZnO

for Research and Development



# CrysTec

KRISTALLTECHNOLOGIE

<b>Growth Method:</b>	hydrothermal
<b>Crystal Structure:</b>	hexagonal
<b>Density (25°C):</b>	5.7 g/cm <sup>3</sup>
<b>Lattice Constant:</b>	a = 0,325 nm c = 0,313
<b>Colour:</b>	colourless to pale green

<b>Physical Properties:</b>	
<b>Melting Point:</b>	2250 K
<b>Hardness:</b>	4 (Mohs)
<b>Thermal Conductivity:</b>	2,5 W/m K
<b>Thermal Expansion:</b>	$3,2 \times 10^{-6} \text{ K}^{-1}$
<b>Dielectric Constant:</b>	8,5
<b>Band Gap</b>	3,2 eV
<b>Refractive Index</b>	$n_o = 2.026$ $n_c = 2.041$
<b>Reciprocal Dispersion</b>	13
<b>Transmission Range</b>	0.395 - 5 $\mu\text{m}$

<b>Orientation:</b>	(0001)
<b>Standard Size:</b>	10 x 10 mm <sup>2</sup> , 10 x 5 mm <sup>2</sup>
<b>Standard Thickness:</b>	0.5 mm, 1 mm
<b>Surface:</b>	one- or both side epipolished

► For further information please feel free to ask.