



CRYSTAL MATERIALS INDEX

Sodium Chloride

Properties	Value
Absorption Coefficient (cm ⁻¹)	1.64x10 ⁻⁴ at 2.7μ
Apparent Elastic Limit (MPa)	2.4
Bulk Modulus (K) (GPa)	24.42
Cleavage Planes	(100)
Density (g.cm ⁻³)	2.16
Dielectric Constant	5.9 at 1MHz
Elastic Coefficient C11	48.5
Elastic Coefficient C12	12.3
Elastic Coefficient C44	12.61
Hardness (knoop)	18.2
Melting Point (K)	1074
Poisson Ratio	0.252
Reflection Loss (%)	7.5 at 10.6μ
Refractive Index	1.50 at 10μ
Reststrahlen Peak (μ)	50.1
Shear Modulus (G) (GPa)	12.61
Solubility (g/100g H ₂ O)	35.7 at 273K
Specific Heat Capacity (J·kg·m ⁻¹ ·K ⁻¹)	854
Stability	Hygroscopic
Structure	FCC
Thermal Conductivity (W·m ⁻¹ ·K ⁻¹)	1.15 at 273K
Thermal Expansion (K ⁻¹ at 300K)	40x10 ⁻⁶
Transmission Range (μ)	0.2-20
Youngs Modulus (E) (GPa)	39.98

NaCl

Sodium Chloride, common rock salt, is one of the most useful materials for general purpose spectroscopic windows and applications where sensitivity to moisture is unimportant.

(All data is for information only and believed to be correct. Hilger Crystals does not accept any liability otherwise.)