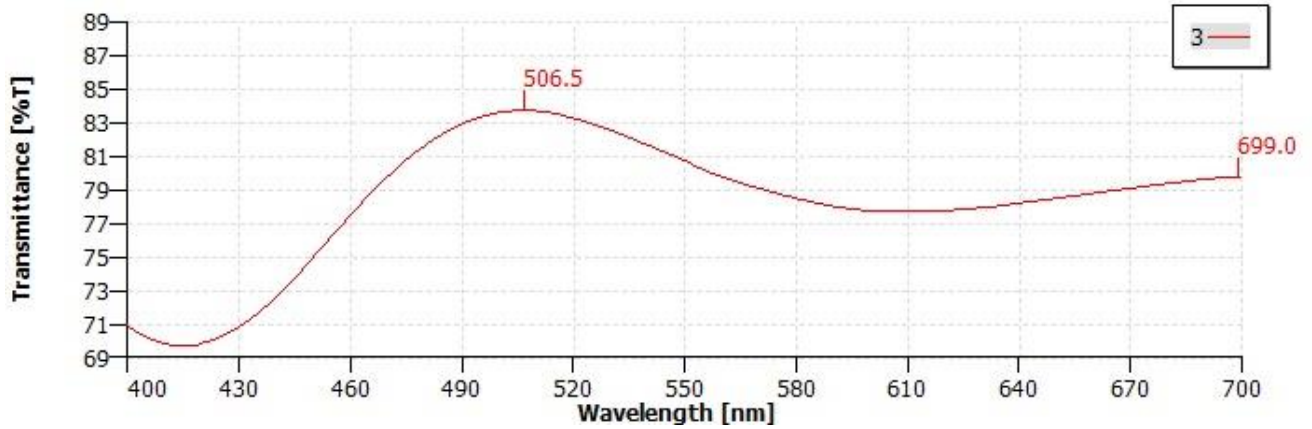


DATA SHEET

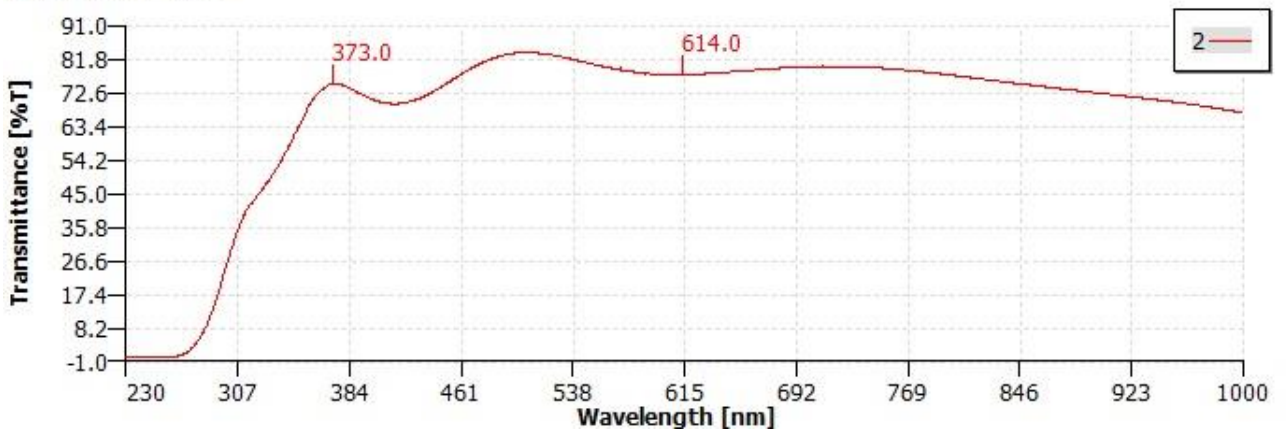
ITO COATED FUSED QUARTZ

ITO Coated Quartz Transmission

DataStream - Scan



DataStream - Scan



DATA SHEET
ITO COATED FUSED QUARTZ
FUSED QUARTZ DATA

Chemical Impurities

Typical mean value (ppm)													
Al	Co	Ca	B	Cu	Fe	K	Li	Mg	Mn	Na	Ni	Ti	OH
18	0.01	0.4	0.03	0.02	0.2	0.6	0.4	0.02	0.06	0.8	0.02	1.2	200

Physical Properties

Density	2.20g/cm ³
Hardness	580 KHN 100
Tensile Strength	4.8x10 ⁷ Pa (N/mm ²)
Compressive Strength	> 1.1x10 ⁹ Pa
Coefficient of Thermal Expansion	5.5x10 ⁻⁷ cm/cm.°C (20°C-320°C)
Thermal Conductivity	1.4 W/m.°C
Specific Heat	670 J/kg.°C
Softening Point	1700°C
Annealing Point	1215°C
Electrical Resistance	7x10 ⁷ ohm.cm (350°C)
Dielectric Constant	3.74 (10 GHz)
Dielectric Strength	3.7 x 10 ⁷ V.m ⁻¹
Dielectric Loss Factor	0.0002 (10 GHz)

Refractive Index

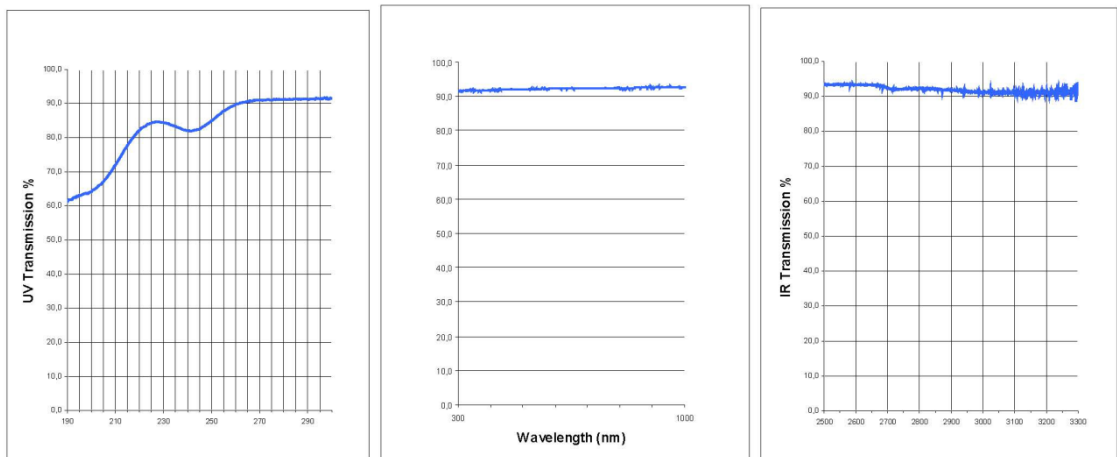
ng	nf	ne	nd	nc
1.46679	1.46324	1.46021	1.45857	1.45646

DATA SHEET

ITO COATED FUSED QUARTZ

Fused Quartz Transmission Data

Optical grade fused quartz



Typical Inner transmission values of optical grade fused quartz at selected wavelengths per 2.0mm layer

λ [nm]	200	210	220	240	254	280	500	2200	2700
Transmittance [%]	64,092	71,874	82,149	82,008	87,245	91,404	92,323	93,312	92,311