

Alkali Free Borosilicate:

Corning® 7059

Glass Code: Corning		7059
Type		Alkali Free Borosilicate
Color		Clear
Principal Use		Optics & electrical substrates
Thermal Expansion Multiply by 10^{-7} cm/cm/°C	0 - 300°C.	46.0
Viscosity Data This data is subject to normal manufacturing variations.	Strain point °C.	539
	Annealing point °C.	639
	Softening point °C.	844
Density g/cm ³		2.76
Log ₁₀ of Volume Resistivity ohm/cm.	250°C	13.1
Dielectric Properties (1 MHz 20°C)	Dielectric constant	5.84
	Loss factor %	.10
Refractive index @		
435.8 nm		1.544
546.1 nm		1.534
643.8 nm		1.531
Transmittance (t=0.5mm)		~70% (320 nm) ~90% (360 nm) >90% (380-2200 nm)
Surface Smoothness		.5 micro inch (typ)
Surface Flatness		.004 in/in typ