Glass designation :		QE			Code	8092	
Color : Glass type : Application :		White Chemtemperable, crown glass Molds for organic ophtalmic lenses					
PHYSICAL PROPERTIES				REFRACTIVE PROPERTIES			
				Refractive ind	lex nd	1.5231	
Density :		2.62	g/cm3				
Linear Exp. Coef. :		95	10 <sup>-7</sup> / °C		Abbe number vd		
		705	•	IRANS	WIISSION PROP	<u>ERTIES (2 mm)</u>	
VISCOSITY :	Ann. Pt Strain Pt	735 545 505	ະ ເ ເ	Luminous tr	Luminous transmission factor		
				To water	NF ISO 719	HGB3	
CHEMICAL DURABILITY (class)				To acid To alkalis	DIN 12-116 ISO 695	3 A2	
CHEMTEMF	ERING						
The chemter	npering proce	ess builds up a	a compressive st	ress at the surface	of the piece through	n ion exchanges	

between the glass and the salts bath. The amount of compressive stress and the depht of the compressed layer are the two parameters that determine the mechanical resistance of the molds :

- Maximized depth of layer (DOL) insure longer mold life (ie: serviceability) as it reduce the negative impact of damaged surfaces.

- Higher compression shall enhance break resistance.

The balance between these two parameters depends on processing conditions.

## Recommended bath and cycle :

Bath :	Potassium Nitrate Silicic Acid	99.5 % 0.5 %	(Sodium nitrate 0.5% max)
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ŀ	Time :	16 Hr	D.O.L. (μm)	Compression PSI
	: <b>Ο°</b> θ	450 °C	90	53000

Longer time cycle, or higher processing temperature, will produce larger D.O.L. but decrease compression.

## Short schedule :

Short chemtempering schedules may be found appropriate, although they lead to reduce D.O.L., wich may translate into reduced molds serviceability. Typical performances are as follow :

 Time :
 4 Hr
 D.O.L. (μm)
 Compression PSI

 θ °C :
 450 °C
 55
 50000

## SPECIAL APPLICATION

For fused bifocal molds application, a specific version of this glass is available under GLASS CODE 8092 F