

ARMOREX®

"ARMOREX®" is a cost effective chemical strengthening glass based on soda lime glass combining strength and well cutting ability.



■ Characteristics

- Higher in intensity than conventional chemically strengthened soda lime glass.
 - Compressive stress : $\geq 650\text{MPa}$
- Easy to cut after chemical strengthening.
 - Depth of Layer : $10\mu\text{m} - 13\mu\text{m}$
- Ideally suited for OGS.
- Guaranteed stable supply and quality control by integrated production (from cutting to chemical strengthening process) at Taiwan Central Glass Co., Ltd.

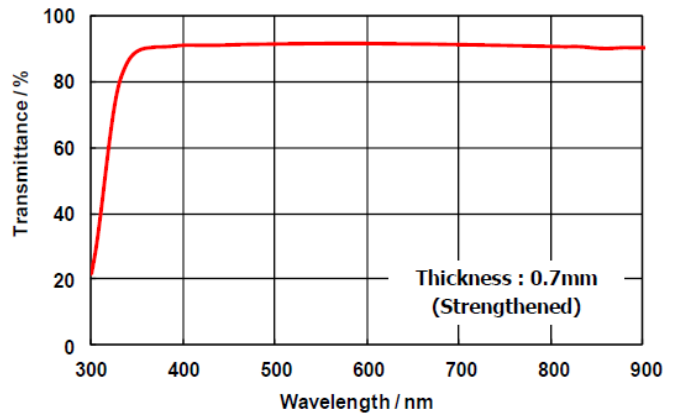
■ Available thickness and size

- Thickness : 0.4mm – 3.0mm
- Size : Available in Gen4.5 (730mm × 920mm)

■ Properties

Property		
Density	2.49g/cm ³	
Young's Modulus	74GPa	
Mechanical	Poisson's Ratio	0.22
	Vickers Hardness Unstrengthened	5.3GPa
	Strengthened	5.7GPa
Thermal	Coefficient of Expansion (30-300°C)	$85 \times 10^{-7}/^{\circ}\text{C}$
	Softening Point	741°C
	Annealing Point	551°C
	Strain Point	503°C
Optical	Refraction Index (Nd)	1.52
	Photoelastic constant	26nm/cm/MPa

■ Optical transmittance



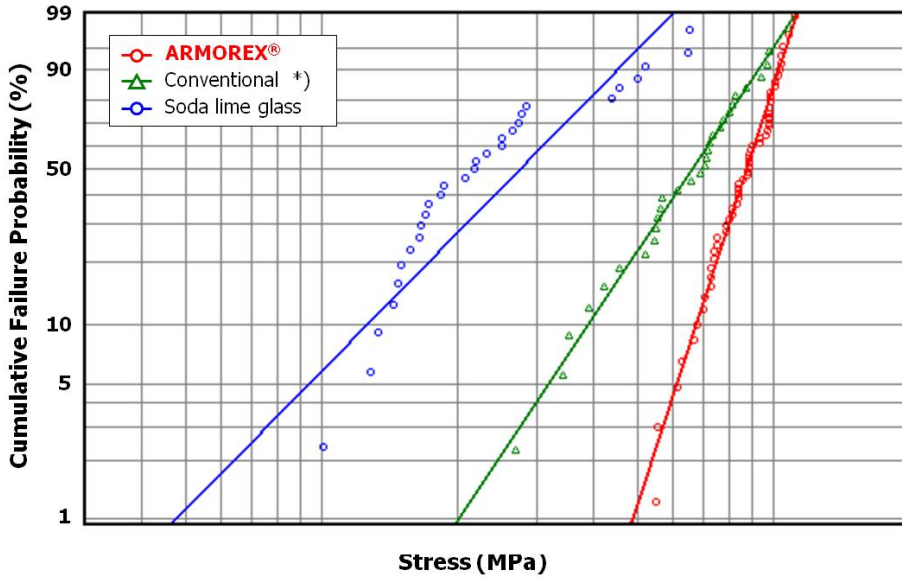
■ Chemical Durability

Reagent	Time	Temperature (°C)	Weight loss (mg/cm ²)
5% HCl	24hrs	95	0.04
5% NaOH	6hrs	95	0.50
10% HF	20min	20	6.51
10% BHF	20min	20	3.69

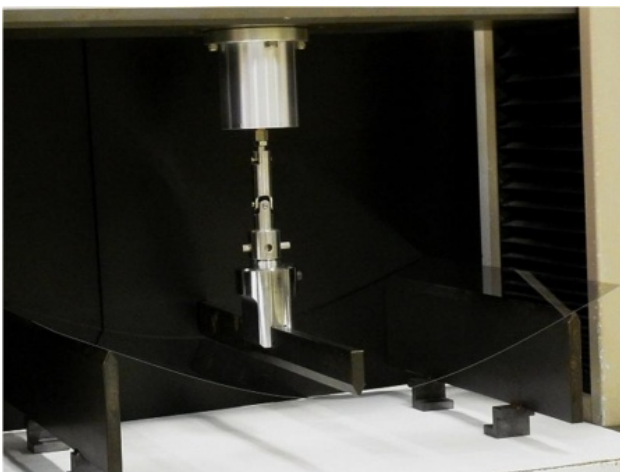
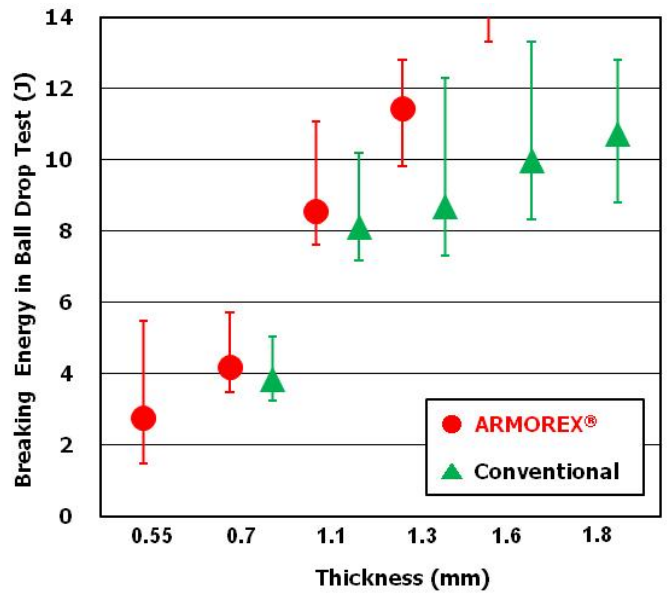
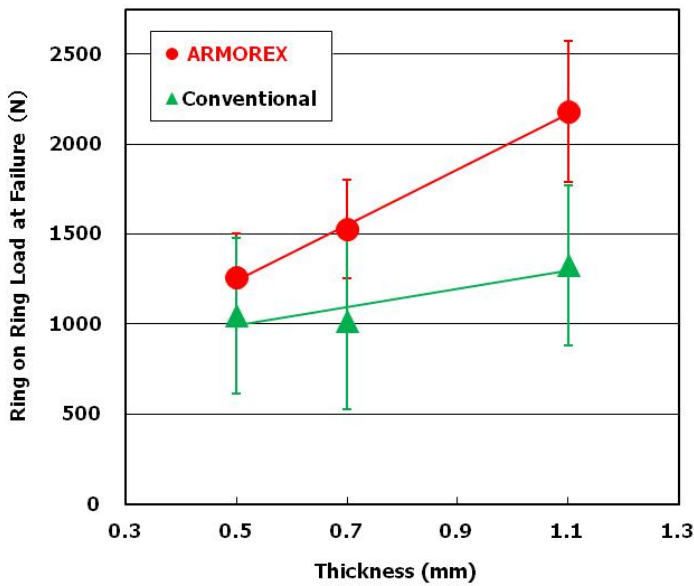
■ Electrical Characteristics

Frequency (MHz)	Dielectric constant	Loss tangent
0.1	7.2	0.009
1	7.1	0.009
54	7.0	0.008
175	7.0	0.009
490	7.0	0.009
912	7.0	0.013

Strength



*) conventional chemically strengthened soda lime glass



Central Glass Co., Ltd.

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