

## **GLASS PROCESSING**

## **Glass Strengthening**

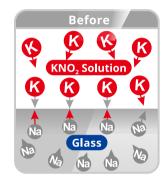
Tempered glass can be processed using two methods: chemical strengthening and heat tempering.

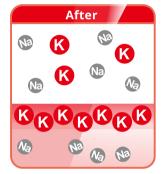
## Chemical Strengthening

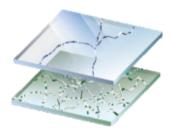
This involves immersing the glass in a molten solution containing potassium salts, which replaces sodium ions with larger potassium ions, thereby increasing the stress and surface strength of the glass.

## **Heat Tempering**

Also known as thermal tempering or toughened glass, this method involves heating the glass to near its softening point and then rapidly cooling it. This process gives the glass higher strength and impact resistance.







Heat-Tempering Glass Breakage Pattern

Tempered Glass Breakage Pattern

