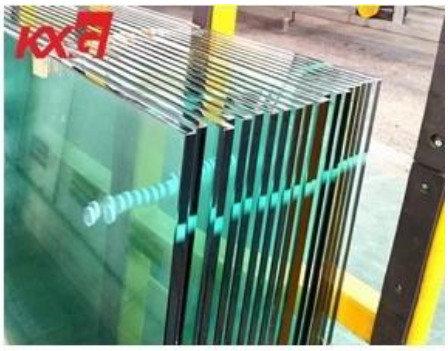
About 10mm clear tempered glass

10mm clear tempered glass (also call 10mm clear toughend glass, 10mm clear full tempered glass) is fabricated by heating annealed glass to over 600°C and cooling it rapidly. 10mm tempered glass is **not easy to be broken when attacked**. Even when glass broken, broken glass particle is of honeycomb shape with obtuse angles which won't cause severe hurt to humen body. It is a **safety glass** which is used when strength, thermal resistance and safety are important considerations.

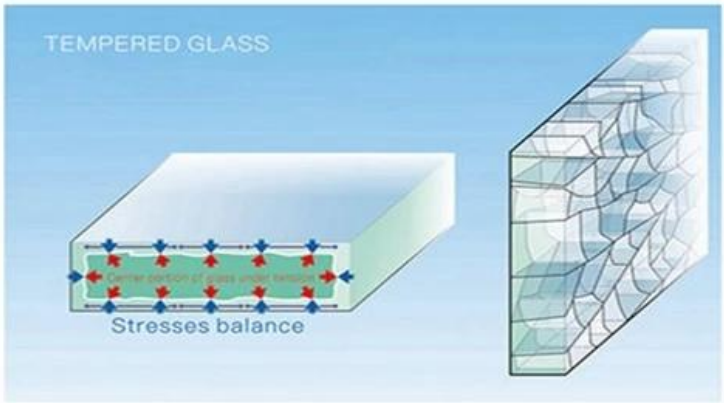


Characteristics of 10mm clear tempered glass

1. **3-5 times** harder than ordinary float glass
2. Once breakage occurs, the glass disintegrates into **honeycomb shape with obtuse angles**, which are relatively harmless to human body.
3. Thermal stability of tempered glass is three time higher than that of float glass of the same thicness. Tempered glass can withstand sudden temperature shift of **250 to 320°C** while float glass can only withstand shift of 20 to 100℃.
4. Sizes are produced as per customer request.

Feature(性能)	Tempered(钢化)	Heat strengthened(半钢化)	Normal(普通)
Safety(安全性)	best(最好)	general(一般)	none(没有)
Intensity(强度)	150mpa	100~1520mpa	30~90mpa
Themal stabilityre(热稳定性)	250~320℃	100℃	2~100℃
Surface stress(表面应力)	95mpa	24-69mpa	.....
Broken state(破碎状态)	obtuse-angele grain(纯角颗粒)	shooting broken(放射状破碎)	sharp(锐利)
Self- destruction(自爆)	sometimes(会)	seldom(基本不会)	never(不会)

Toughened principle Surface of glass in compression(> 10,000 psi)
钢化玻璃玻璃在压缩面（> 10000 psi）



Compare normal glass with toughened glass
钢化玻璃与普通玻璃比较

Toughened glass broken into small cubical fragments high safety human harmless.

Normal glass broken into big and sharp fragments easy hunt human.

The comparison between tempered glass, heart strengthened glass and normal glass
钢化、半钢化与普通玻璃的性能比较（安全性、强度、热稳定性、破碎状态）

Application of tempered glass

- 1. Interior partitions and office enclosures.
- 2. Balustrades and fence.
- 3. Windows, Doors, Exhibition Hall, Shower Room and so on.

Packaging Details

- 1. The four corners of the glass will have **protective corners**.
- 2. Separate each piece of glass with a **cork mat**.
- 3. Suitable for shipping and land transport strong export **plywood crates**.
- 4. **Steel belt** or another material belt for consolidation