



Dead Front Glass Technology

After adding inorganic metallic oxide colorant, the original transparent glass material changed into a dark gray color with low-transmittance of 18% to 38%, which is called "gray glass". It can help the full display screen realize the "dead front effect". That is to say, the display is clearly visible when back-lit, and when non-backlit, the entire display including glass is completely black without color difference.

Custom sizes and shapes are available

Biggest Size: 32" Thickness: 2.1~4.0mm

■ Glass Feature

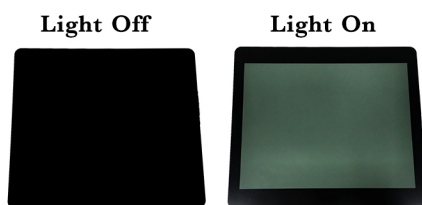
Thickness(mm)	Optic Characteristic(%) & Test Specification						Color requirement, scope & Test Specification		
	LTA (Light transmittance)	TE (Solar direct transmittance)	TUV (UV-transmittance)	TIR Near-infrared (transmittance)	TTS	RE	L*	a*	b*
	380nm-780nm	300nm-2500nm	300nm-380nm	780nm-2500nm			1931 CIE L*a*b* D65 illuminant, observer2°		
	ISO 9050-2003								
2.1±0.1	38.6	36.8	17.6	33.6	51.56		68.6	-3.5	2.8
3.2±0.1	25.3	24	10	21.1	42.06	3.92	57.6	-4.5	3.9
3.5±0.1	22.1	21	8.4	18.3	39.84	3.9	54.3	-4.7	3.9
4.0±0.2	18.9	18	7	15.5	37.61	4.21	50.8	-4.9	4.3

■ Surface treatment

Categories	Water Contact Angle	Scratch-Resistance	Gloss	Haze
AF	>110°	With 500g weight, 0000# steel velvet, friction 2000 times (one round trip is recorded as 1) and the decay value is within 15%.	/	/
Coating AG+AF	>110°	With 500g weight, 0000# steel velvet, friction 2000 times (one round trip is recorded as 1) and the decay value is within 15%.	50±15°	6±3°

■ Applications and solutions

Dead front glass is widely used in smart home, smart wearable, financial equipment, medical equipment, industrial control instrument and other displays, showing a high-end aesthetic.



VA area has the same color as BM area

Solutions	Dead front glass	Cost	Yield	L/T
Coating	Good	High	Low	Long
Film Adhesion	Good	High	Low	Long
Printing	applicable to 20*20mm area	High	Low	Long
Gelivable	can realize 32" large area	Low	High	Short

