bhT

PRO SKIN PRO SCREEN



we offer the best skin for



Sunlight Readable	Super Hard Coated + Anti-Vandal	Anti-Glare in micro beads	Half Mirror	Anti-Saltwater
Reflectance: **< 0.5%** **Transparency:** **> 99%**	**Surface Hardness:** **5H, 8H** per kg.Force	**Haze:** **2.5%~25%** micro beads	**Non-metal coating** **Adjustable mirror reflection**	**over** **2,400hrs** **salt water test**

Optical Material Properties Intro

bhT MAKE THE SCREEN GRADE UP

PROPERTIES \ MATERIAL			PMMA	PC	Compound Material	PET
			Acrylic	Polycarbonate	PMMA/PC (/PMMA)(/PET)	Polyethylene
Optical Material Properties	Optical	Transparence(JIS K7105)	> 92%	> 91%	> 91%	> 92%
		Haze(JIS K7105)	< 0.5%	< 0.8%	< 1%	< 0.5%
		Refractive Index(ASTM D542A)	1.52	1.59	Optional	1.54
		Yellowness Index(ASTM1925)	< 1.5	< 2	Optional	< 3
	Mechanical	Before Hard Coat(JIS K5600)	2~3H	F	2~3H	1~2H
		Impact Strength(DIN 53454)	50	> 700	Optional	20
		Gravity	1.18	1.2	Optional	1.35
	Environment	Humidity Resistance	65℃ 95% Humidity Up to 1,000hrs	65℃ 95% Humidity Up to 1,000hrs	65℃ 95% Humidity Up to 500hrs	65℃ 95% Humidity Up to 500hrs
		Heat Resistance(1,000hrs)	80℃	130℃	140℃	120℃
		Heat Impact Resistance(500-cycle)	-30℃ ~ 80℃	-30℃ ~ 80℃	-30℃ ~ 80℃	-30℃ ~ 80℃
		Heat Distorsional	85℃	135℃	90℃	150℃

- Compound material could be vary, PMMA/PC/PMMA, PMMA/PC, PMMA/PET,...etc. Thus, "optional" properties can be discussed.
- Data from the above are test result for reference only, not for guarantee purpose.

thickness info.

Thickness(mm)	0.5, 0.65, 0.8,	0.1, 0.2, 0.3, 0.5, 0.8,	0.5, 0.8,	0.05, 0.075, 0.1,
	1.0,1.5, 2.0,	1.0,1.5, 2.0,	1.0,1.5,	0.125, 0.188, 0.25
	3.0, 5.0, 8.0, 12.0	3.0, 5.0, 8.0, 12.0	2.0, (3.0, 5.0)	

bhT ARTWORK Processes info.

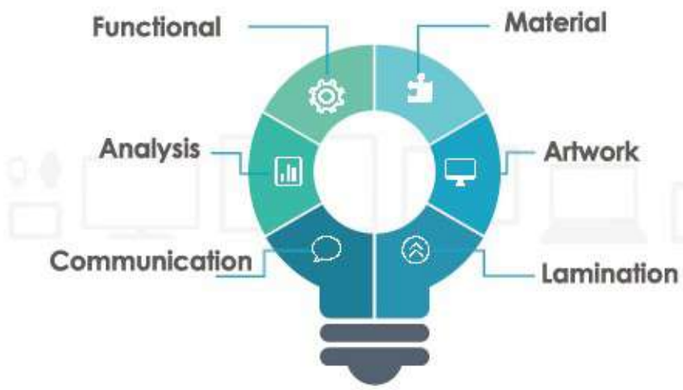
- Colorful artwork in multiple screening
- Accurate shapes in CNC as mechanical design
- Lamination to achieve different material structure

After Funtional Coating

			PMMA		PC		Compound Material		PET	
Mechanical	Hard Coated		v	5H	v	1H	v	3H	v	3H
	Super Hard Coated		v	8H	x	N/A	v	9H	v	6H
	AFP(Contact angle enhanced)		v	115°	v	100°	v	115°	v	110°
Optical	AR Coating	Reflectance	v	< 0.5%	v	< 0.5%	v	< 0.5%	v	< 0.5%
		Transparence		> 99%		> 99%		> 99%		> 99%
	Anti Glare	Haze & Gloss	v	Optional	v	Optional	v	Optional	v	Optional
	Half Mirror	Mirror Reflection	v	Optional	v	Optional	v	Optional	v	Optional
		Half Transparency	v		v		v		v	
Other Funtional Coating	UV-cut		cut UVA, UVB up to < 400nm wavelength							
	EMI shielding		optional resistance in 4.5 Ω/□, 8 Ω/□,...etc.							
	Anti Fog		water contact angle < 5° for inner gap between							
	Anti Newton Ring		rear surface with micro beads < 2.5% haze							
	UV/IR through		transmittance in broader band wavelength							
	Anti Salt Water		passed 2,400hrs salt water test							

for more applicable function may customized after discussion

aiming at all the best for your product



please contact directly for more info

We offer customize solution for various screen technology