



# SCREEN PROTECTOR



**艾福仕光电器材有限公司**  
IPECKS 3D TECHNOLOGY LIMITED

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**东莞市艾福仕光电器材有限公司**  
IPECKS 3D TECHNOLOGY LIMITED

# COMPANY INFORMATION

## IPECKS 3D TECHNOLOGY LIMITED

iPecks 3D Technology Limited is a professional manufacturer of tempered glass screen protector. We provide high-quality products in mobile phone appliance, such as brand iPhone, Samsung, Huawei, LG, MI, Sony and so on.



# COMPANY CERTIFICATES

iPecks 3D Technology Limited founded in 2011, covers an area of 20,000 square meters in Dongguan, Guangdong China with high-tech R&D center, advanced testing equipment and manufacturing equipment and have more than 200 high-quality staffs and a management team. We have been passed the international quality system environment ISO 9001:2015 and ISO 14001:2016. We accept OEM ODM business from worldwide.



# FACTORY



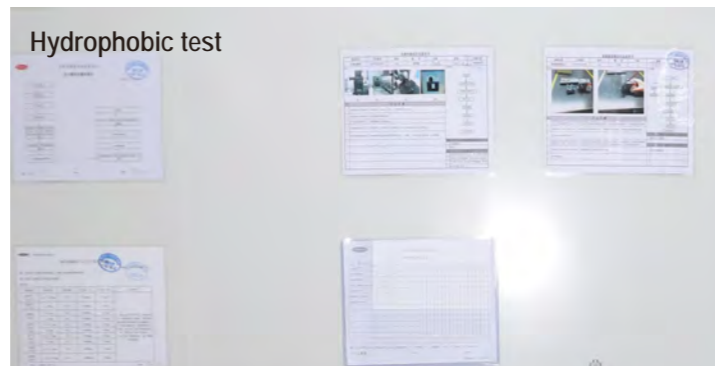
# FACTORY EQUIPMENT



# TEST EQUIPMENT



Anti-Abrasion test



Hydrophobic test



Edge test



Stress test (DOL、CS、CT)



Measuring accurate size



Flatness test

# TEST EQUIPMENT



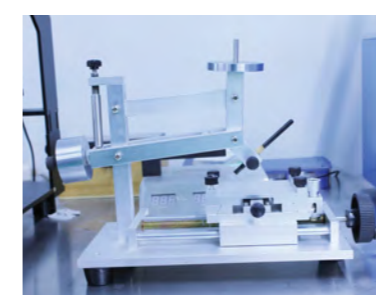
Peel test



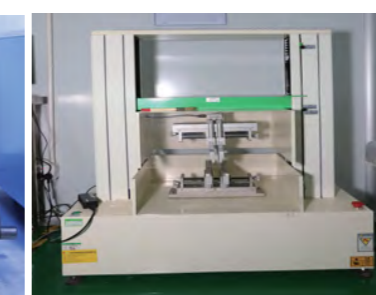
Ball test



Simulated Environment Test



Mohr hardness test



4 Point bend test



Transmittance test

# Thickness

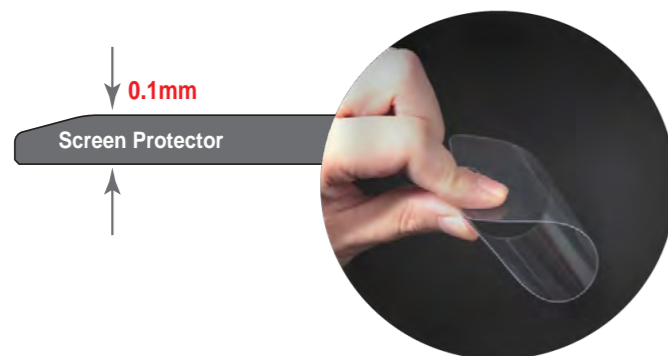
0.1mm Ultra Thin



## Features

- 9H Surface hardness
- Break proof
- Perfect adhesive
- RoHS compliance
- Shatter proof
- Ultra thin 0.1mm thick
- Excellent visibility
- Anti-bacterial
- excellent touch sensitivity
- Oleophobic coating

Items	0.1mm	0.21mm	0.33mm
Appearance	thinnest	thinner	medium
Touch	related to the surface coating and cutting process		
Explosion-proof	best	best	best
Light transmittance	best	best	good
Sensitivity	best	best	good
Flexibility	best	best	good
Durability	best	best	good



# THE COATING PROCESS



The coating process determines the pros and cons of the anti-fingerprints, Dripping water is the direct reflection, which also named Hydrophobic oleophobic coating.

iPecks glass film usually adopt to two coating process as following:

- Spray plating
- Electroplating

## The comparison of the three process

	Electroplating	Spray plating
Touch	best	good
Oleophobicity	best	good
Durability	more than 12 months	6 months



1:1 fit screen printed tempered glass screen protector, which cover full screen, nearly edge.

## Tempering glass process

The normal glass is tempered in toughened furnace with KNO<sub>3</sub> at 400°C for 4 hours, thus the glass has the several main features : explosion-proof, 9H hardness, flexibility.

	Untempered or tempered for short time	Normal tempered glass film
Surface hardness	easy to scratch	9H hardness, anti-scratch
Explosion-proof property	bad	good
Flexibility	bad	good
Performance after shattering	with Spikes debris, easy to hurt	with Powder or circular pieces, don't hurt



## Anti-Blue Light

Long time exposure in the blue light that may cause damage to the retina, even lead to short light and blindness. Ipecks anti-blue light screen protector can protect eyes from blue light.

- Anti-blue light
  - 9H hardness
  - Block 41% blue light
- Anti-scratch
  - Ant-blast
  - Anti-fingerprint



## Anti-glare tempered film

Protect your eyes from the glare of your mobile phone

Specification	High-end Product	Middle-end product	Low-end product
Glass Brand	Corning/Schott/Dragontrail	AGC/NSG/CSG	CLFG/CSG/CNBM
AF Specification	>115 Deg C After 3000 times friction	>110 Deg C After 3000 times friction	>105 Deg C After 3000 times friction
Nomral tempered glass	Falling Ball Impact: 64g/50cm Blank holding test: ≥10KG	Falling Ball Impact: 64g/25cm Blank holding test: ≥8KG	Falling Ball Impact: 32g/50cm Blank holding test: ≥5KG
2 Strong	Falling Ball Impact: 64g/80cm Blank holding test: ≥20KG	Falling Ball Impact: 64g/50cm Blank holding test: ≥15KG	Falling Ball Impact: 32g/100cm Blank holding test: ≥10KG
3 Strong	Falling Ball Impact: 64g/150cm Blank holding test: ≥30KG	Falling Ball Impact: 64g/80cm Blank holding test: ≥20KG	Falling Ball Impact: 64g/50cm Blank holding test: ≥15KG
Super strong	Falling Ball Impact: 132g/150cm Blank holding test: ≥40KG	Falling Ball Impact: 64g/120cm Blank holding test: ≥25KG	Falling Ball Impact: 64g/80cm Blank holding test: ≥20KG
Anti-blue	Blue light blocking rate≥50%	Blue light blocking rate≥40%	Blue light blocking rate≥30%
Anti-glare	Haze: 2.9 Transmittance: 92.8%	Haze: 36.02 Transmittance: 90.8%	Haze: 5.9 Transmittance: 92.4%
Ceramic effect	Loading 500g,Mo hardness 7	Loading 500g,Mo hardness 7	Loading 500g,Mo hardness 7
Anti-bacterial	Standard JIS Z 2801:2010 ATCC 8739 Antibacterial activity value 4.8 ATCC 6538 PAntibacterial activity value 5.7	Standard JIS Z 2801:2010 ATCC 8739 Antibacterial activity value 2.6 ATCC 6538 PAntibacterial activity value 2.1	Standard JIS Z 2801:2010 ATCC 8739 Antibacterial activity value 6.0 ATCC 6538 PAntibacterial activity value 3.8

Specification	High-end Product	Middle-end product	Low-end product
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Anti-glare	Haze: 2.9 Transmittance: 92.8%	Haze: 36.02 Transmittance: 90.8%	Haze: 5.9 Transmittance: 92.4%
2 Ways Anti-Privacy	Angle 27 Degree; transmittance 63.3% Haze: 4.7	Angle 27 Degree; transmittance 63.3% Haze: 4.7	Angle 27 Degree; transmittance 63.3% Haze: 4.7
4 Ways Anti-Privacy	Angle: 27 Degree; transmittance: 43.4% Haze: 5.4	Angle: 27 Degree; transmittance: 43.4% Haze: 5.4	Angle: 27 Degree; transmittance: 43.4% Haze: 5.4
Anti-Static	AB glue Surface resistance : 3.22E+11Ω AB glue surface resistivity: 3.22E+12Ω/sq	AB glue Surface resistance : 3.22E+11Ω AB glue surface resistivity: 3.22E+12Ω/sq	AB glue Surface resistance : 3.22E+11Ω AB glue surface resistivity: 3.22E+12Ω/sq

### Scientific Anti-Privacy principle

front	Up and down	around
90°	30°	30°
The front is clearly visible	Black screen fails See	Black screen fails See



## 360° Anti-Spy

IPECKS privacy screen protector for apple iPhone, taking advantage of advanced micro-louver privacy technology. Specially protect your privacy. You can use your phone in public without revealing confidential information, because the person next to you just sees a dark screen.

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## Anti-Microbial

The bacteria on the phone screen were 10 times as high as the toilet by testing, and the touchscreen became a breeding

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# Anti-Static

Effectively prevent static electricity, effectively prevent mobile phone dust

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# Ceramic effect

Effectively prevent mobile phone scratches

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## 2 Strong/3 Strong/ Super Strong

the screen protector is more durable, safer and effectively increase the hard of the glass and prevent shatter from hurting people when broken.

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## About our product, some information you should know

IPECKS 3D curved edge tempered glass have launched dramatically in the market, leading the latest industrial.

- Patent technology, 3D curved edge process
- Hole alignment precise
- 100% full coverage
- perfect laminating, high-speed automatic self-adhesive technology
- high transparency, 97% high transmittance

