







Manufacturing of Smartphone Tempered Glass Screen Protector

Investment Opportunities in Mobile Screen Protector Business



Introduction

A screen protector is an additional sheet of material—commonly polyurethane or laminated glass—that can be attached to the screen of an <u>electronic</u> device and protect it against physical damage. A tempered glass protector is a multi-layered screen protector. It has a bottom layer of absorbent silicon, PET film and an optically clear adhesive tempered glass and oleo phobic coating in that order. Tempered glass is up to five times stronger than normal <u>glass</u>.

Tempered glass is always more robust and durable than plastic. Plastic protectors get scratched easily and are around 0.1mm, while the glass protectors are generally 0.3-0.5 mm in thickness. Screen protectors can safeguard your smartphone up to a limit.





<u>Uses</u>

Every year users of Smartphones are increasing in many folds. Interestingly, Smartphone companies are coming up with new models to increase their market share. All these phones are loaded with specs and features thus needs special protection special when it comes to glass screen of Smartphones.

Related projects:- <u>Glass, Flat Glass, Art Glass, Hollow Glass,</u> <u>Automotive Glass, Optical Glass, glass processing line, Glassware</u> <u>Industry</u>





In this regard, screen protector market provides loads of solutions of different kinds from plastic to <u>tempered glass screen protector</u>. Over the years it has been proven that tempered glass screen protector provides far better protection to your Smartphone rather than any other options. Tempered glass screen protector too has come long way to offer more secured options and more trusted qualities.





Advantages

Perhaps the best advantage of using a tempered glass screen protector is that the fabric is thicker and stronger than that of your typical <u>plastic</u> screen protector. As a result, your screen protector are extremely proof against scratches and different visible damage. This can be particularly vital for those who tend to store their smartphones in a bag or purse with keys or different objects that could otherwise scratch the screen.

In addition to providing a thicker and stronger layer of protection for your phone's screen, a tempered glass screen protector also includes a look and feel that's terribly similar to your standard smartphone screen. As a result, you will not notice the screen protector as much as you would with a plastic one.

Related Books: - Minerals & Mineral Processing, Glass And Ceramics



On the opposite hand, tempered glass screen protectors are usually significantly more expensive than traditional <u>plastic</u> screen protectors. It's not uncommon to pay at least £25 for one tempered glass protector, which can appear steep for a few. Furthermore, because of the additional thickness provided by a tempered glass screen protector, some phone cases might not work properly, or the home button of the phone it may seem a lot of indented. This can take some getting used to for phone users.





Technology and Effect

Tempered <u>glass</u> screen protector manufacturers round the world always attempt to craft one thing new for the customers' i.e. Smartphone users. Round the world and in China, making products that are user-friendly and provides relief whereas using it are the aims of manufactures and that they work continuously to improve product quality and add features into it.

Generally, to make the mirror effect, manufacturers of tempered glass screen protectors using high-end technology and top-end machines apply <u>electroplating</u> for smooth and glossy result. Right along the process manufacturers take further precautions and care to not harm the glass itself. Because there are probabilities if the process isn't done properly by following the step mentioned it will dampen the glass thus the top result could be a disaster.



Moreover, to stay the look a crystal clear shiny, the <u>electroplating</u> must be completely accurate else cracks will seem within the screen. This feature can sure as shooting enhance the planning of your mobile and may always sing their own praises your Smartphone. This feature improves the existing disadvantage of protection features of tempered glass screen protector because the performance can also be really good.

<u>Electroplating</u> mirror effect not only makes your phone a shiny one but it also helps you to protect your privacy to some extent. Also, the <u>electroplating</u> coating is really ultra-thin therefore making mirror effect style more effective yet modern. Because of <u>electroplating</u> the protection ability gets a lift and all the other existing disadvantages take a back seat.





Size:

The first thing that every buyer should look for while selecting a new tempered <u>glass</u> screen protector is its size. The size must match the dimensions of your Smartphone. One of the easy ways to find it is with the Model number of your phone which would guide you to find and select a protector of accurate size.

Along with the above one of the major issues that you should consider before buying any tempered glass screen protector is its coverage area. Most glass screen protectors hurt the integrity of edge phones by compromising the edge part with adhesive and cover the adhesive with colors.

Related Videos:- <u>Glass, Flat Glass, Art Glass, Hollow Glass, Automotive</u> <u>Glass, Optical Glass, glass processing line, Glassware Industry</u>



The important point is that glass screen protectors should be able to protect edge-to-edge display. It should be crystal clear all the way around even on the sides. MPG offers 3D Curved Full Cover Tempered Glass Screen protector and

Here also, please take a look at some technologies that are involved in making tempered glass screen protector. This will help you more with knowledge so that you can look for the perfect coverage providing screen protector.





Mobile Tempered Glass Manufacturing Process

First remove the cover of the tempered glass machine and insert 3D soft anti shock screen protector film in it. After this, to set this film in the machine properly, keep thin magnets on it. It clings to the iron-containing area under the film and does not move during the process of making the screen protector glass. After this, turn on the power of the machine. Now apply the protector template for the phone for which you want to make tempered glass. After that cut the 3D soft anti shock screen protector according to the size of your phone. At this time, this screen protector will remain inside the machine. This can be done by a cutter attached to the cutting machine. After some time take it out of the machine. Now the screen protector for the phone is ready. It is sold for up to 100 rupees. So on a screen guard you get a profit of 70 to 80 rupees. In the same way, you can get a lot of benefit by starting mobile back cover printing business.



Mobile Tempered Glass Making Business Profit

Very good profit is obtained in this trade. You can make this product only between Rs 20 to 30, which can be sold in the market for up to Rs 100. In this way, the profit of at least Rs 70 to 80 in each tempered <u>glass</u> is obtained. Therefore, by doing this business well, a good profit can be obtained with less effort and cost.





Mobile Tempered Glass Making Business License

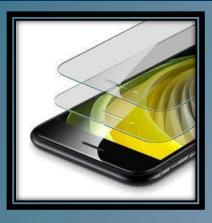
To do any business legally, a license is a must. Therefore, you will have to register your brand under the Government of <u>India</u> and at the same time it is necessary to register the place where you are starting the business. You can register your business firm online under MSME department of Government of India and your brand can be registered under ISI trademark.





How to Start Mobile Tempered Glass Making Business

At this time many precious mobile phones have come into the market with a variety of features. People are attracted and buy towards these attractive mobiles, but providing security to such phones is also very responsible. Once the displays of such phones are broken due to any reason, then it cannot be made again in such a way that it looks completely new. Generally, tempered <u>glass</u> is used to provide protection to these phones, which is not available when purchasing the phone and has to be purchased from the external market. Now-a-days





Market Outlook

Demand for screen protectors is expected to increase due to increasing use of protective smartphone accessories by the consumers of smartphones in the USD 450 - 550 price segment. Introduction of low price premium technology products primarily in the developing economies such as India, China, and Brazil is expected to spur growth over the forecast period. In addition, declining price of the tempered glass screen protectors is expected to result in increased demand for such protectors by consumers. The global Smartphone Tempered <u>Glass</u> Market was valued at \$78.4Billion in 2018 and is forecast to grow at a modestxx.3 % CAGR between 2018 and 2026, culminating in 2026 global sales of \$136.7Billion.



Smartphone Screen Protector Market Share Insight

The business is very competitive in nature, majorly due to presence of a large number of sellers. Key players within the business are involved in development of advanced product with superior characteristics and also are demonstrating their brand strength through well-known trademarked products.

New product development, product customizations, and capacity growth are the key strategic initiatives adopted by the highest players during a bid to attain a competitive come near the trade. The worldwide players located in developed regions such as Europe and North <u>America</u> face strong price competition from Chinese manufacturers.





Tempered glass is manufactured by chemical treatment or controlled thermal processes to extend its strength as compared to annealed glass. The product is utilized in various applications as well as shower doors, passenger vehicle windows, refrigerator trays, and architectural doors and tables. Moreover, it's used as a component in the manufacturing of bulletproof products, mobile screen protectors, cookware, and diving masks on account of superior properties as well as high strength and safety features.

Growing demand for refurbished and pre-used smartphones because of reduced cost is expected to drive the demand for screen protectors. In addition, growing product design innovations, admire introduction of 2.5D and 3D screen protectors that enhance the user expertise, are expected to boost the smartphone screen protector market growth.



The smartphone screen protector market can be segmented on the basis of raw material used into the following categories: polyethylene terephthalate (PET film), tempered glass, multi-layered, and thermoplastic polyurethane. PET films comprising polyester are films with a scratch-resistance matt coating on one side and a silicone adhesive on the other. Thermoplastic polyurethane is a chemically enhanced plastic displaying properties such as scratch resistance, oil and grease resistance, toughness, and elasticity. Tempered glass (TG) screen protectors are multi-layered and carry shock absorbent features, with their bottom layer made of silicon. Multi-layered screen protectors are usually patented and are an advanced variety made of different types of materials so that they can effectively absorb shocks. However, in-built screen protectors in smartphone might restrict this market. Today, various smartphones available in the market are already equipped with efficient screen guards which might impact the demand for stand-alone smartphone screen protectors.

Key Players:-

3M Company, Bodyguardz, LLC, Zagg Inc., Belkin International Inc., Jiizii Glass, Clarivue, Corning Inc., FeYong Digital Technology Limited, AZ Infolink Pvt. Ltd, Shenzhen Yoobao Technology Co. Ltd., and Free S Speed International Co. Ltd.



Major Queries/Questions Answered in the Report?

- 1. What is Smartphone Tempered Glass Screen Protector Manufacturing industry ?
- 2. How has the Smartphone Tempered Glass Screen Protector Manufacturing industry performed so far and how will it perform in the coming years ?
- 3. What is the Project Feasibility of Smartphone Tempered Glass Screen Protector Manufacturing Plant ?
- 4. What are the requirements of Working Capital for setting up Smartphone Tempered Glass Screen Protector Manufacturing plant ?



5. What is the structure of the Smartphone Tempered Glass Screen Protector Manufacturing Business and who are the key/major players ?

- 6. What is the total project cost for setting up Smartphone Tempered Glass Screen Protector Manufacturing Business?
- 7. What are the operating costs for setting up Smartphone Tempered Glass Screen Protector Manufacturing plant ?
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Reasons for Buying our Report:

• This report helps you to identify a profitable project for investing or diversifying into by throwing light to crucial areas like industry size, market potential of the product and reasons for investing in the product

- This report provides vital information on the product like it's characteristics and segmentation
- This report helps you market and place the product correctly by

identifying the target customer group of the product



• This report helps you understand the viability of the project by disclosing details like machinery required, project costs and snapshot of other project financials

- The report provides a glimpse of government regulations applicable on the industry
- The report provides forecasts of key parameters which helps to anticipate the industry performance and make sound business decisions





information from such sources is processed by us and included in the report



Scope of the Report

The report titled "Market Survey cum Detailed Techno Economic Feasibility Report on Smartphone Tempered Glass Screen Protector." provides an insight into Smartphone Tempered Glass Screen Protector market in India with focus on uses and applications, Manufacturing **Process, Process Flow Sheets, Plant Layout and Project Financials of** Smartphone Tempered Glass Screen Protector project. The report assesses the market sizing and growth of the Indian Smartphone Tempered Glass Screen Protector Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line. And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:



- Good Present/Future Demand
- Export-Import Market Potential
- Raw Material & Manpower Availability
- Project Costs and Payback Period

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in the Smartphone Tempered Glass Screen Protector sector in India along with its business prospects. Through this report we have identified Smartphone Tempered Glass Screen Protector project as a lucrative investment avenue.



Tags

#temperedglassscreenprotector #screenprotector #screenguard #temperedglass #screenprotectors #screenprotectoriphone #glassscreen #TemperedScreen #glassscreenfilm #temperedglassscreen #MobileScreenProtector #mobiletemperedglass #phoneprotector #DetailedProjectReport #businessconsultant #BusinessPlan #NPCS #industrialproject #entrepreneurindia #feasibilityReport #startupbusiness #startupbusinessideas #businessestostart #startupideas #projectreport #TemperedGlassBusiness #temperedglassmarket



Niir Project Consultancy Services (NPCS) can provide Detailed Project Report on <u>Smartphone Tempered</u> <u>Glass Screen Protector</u>

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NPCS is manned by engineers, planners, specialists, financial experts, economic analysts and design specialists with extensive experience in the related industries.

Our Market Survey cum Detailed Techno Economic Feasibility Report provides an insight of market in India. The report assesses the market sizing and growth of the Industry. While expanding a current business or while venturing into new business, entrepreneurs are often faced with the dilemma of zeroing in on a suitable product/line.



And before diversifying/venturing into any product, they wish to study the following aspects of the identified product:

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The detailed project report covers all aspect of business, from analyzing the market, confirming availability of various necessities such as Manufacturing Plant, Detailed Project Report, Profile, Business Plan, Industry Trends, Market Research, Survey, Manufacturing Process, Machinery, Raw Materials, Feasibility Study, Investment Opportunities, Cost and Revenue, Plant Economics, Production Schedule,



Working Capital Requirement, uses and applications, Plant Layout, Project Financials, Process Flow Sheet, Cost of Project, Projected Balance Sheets, Profitability Ratios, Break Even Analysis. The DPR (Detailed Project Report) is formulated by highly accomplished and experienced consultants and the market research and analysis are supported by a panel of experts and digitalized data bank.

We at NPCS, through our reliable expertise in the project consultancy and market research field, have demystified the situation by putting forward the emerging business opportunity in India along with its business prospects......<u>Read more</u>



Contact us

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- One of the leading reliable names in industrial world for providing the most comprehensive technical consulting services
- We adopt a systematic approach to provide the strong fundamental support needed for the effective delivery of services to our Clients' in India & abroad



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- Databases on CD-ROM
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- We empower our customers with the prerequisite know-how to take sound business decisions
- We help catalyze business growth by providing distinctive and profound market analysis
- We serve a wide array of customers, from individual entrepreneurs to Corporations and Foreign Investors
- We use authentic & reliable sources to ensure business precision



Our Approach



Thorough analysis of the project

Economic feasibility study of the Project

Market potential survey/research

Report Compilation





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- Public-sector Companies
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- Individual Entrepreneurs
- o NRI's
- Foreign Investors
- Non-profit Organizations, NBFC's
- Educational Institutions
- Embassies & Consulates
- Consultancies
- Industry / trade associations





Sectors We Cover

- Ayurvedic And Herbal Medicines, Herbal Cosmetics
- Alcoholic And Non Alcoholic Beverages, Drinks
- Adhesives, Industrial Adhesive, Sealants, Glues, Gum & Resin
- Activated Carbon & Activated Charcoal
- Aluminium And Aluminium Extrusion Profiles & Sections,
- Bio-fertilizers And Biotechnology
- Breakfast Snacks And Cereal Food
- Bicycle Tyres & Tubes, Bicycle Parts, Bicycle Assembling





Sectors We Cover Cont...

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- Building Materials And Construction Projects
- Biodegradable & Bioplastic Based Projects
- Chemicals (Organic And Inorganic)
- Confectionery, Bakery/Baking And Other Food
- Cereal Processing
- Coconut And Coconut Based Products
- Cold Storage For Fruits & Vegetables
- Coal & Coal Byproduct



Sectors We Cover Cont...

- Copper & Copper Based Projects
- Dairy/Milk Processing
- Disinfectants, Pesticides, Insecticides, Mosquito Repellents,
- Electrical, Electronic And Computer based Projects
- o Essential Oils, Oils & Fats And Allied
- Engineering Goods
- Fibre Glass & Float Glass
- Fast Moving Consumer Goods
- Food, Bakery, Agro Processing

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Sectors We Cover Cont...

- Fruits & Vegetables Processing
- Ferro Alloys Based Projects
- Fertilizers & Biofertilizers
- Ginger & Ginger Based Projects
- Herbs And Medicinal Cultivation And Jatropha (Biofuel)
- Hotel & Hospitability Projects
- Hospital Based Projects
- Herbal Based Projects
- Inks, Stationery And Export Industries





Sectors We Cover

- o Infrastructure Projects
- Jute & Jute Based Products
- o Leather And Leather Based Projects
- Leisure & Entertainment Based Projects
- Livestock Farming Of Birds & Animals
- o Minerals And Minerals
- Maize Processing(Wet Milling) & Maize Based Projects
- Medical Plastics, Disposables Plastic Syringe, Blood Bags
- Organic Farming, Neem Products Etc.

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Sectors We Cover Cont...

- o Paints, Pigments, Varnish & Lacquer
- o Paper And Paper Board, Paper Recycling Projects
- Printing Inks
- Packaging Based Projects
- Perfumes, Cosmetics And Flavours
- Power Generation Based Projects & Renewable Energy Based Projects
- Pharmaceuticals And Drugs
- o Plantations, Farming And Cultivations
- o Plastic Film, Plastic Waste And Plastic Compounds
- Plastic, PVC, PET, HDPE, LDPE Etc.



Sectors We Cover cont...

- Potato And Potato Based Projects
- Printing And Packaging
- Real Estate, Leisure And Hospitality
- Rubber And Rubber Products
- Soaps And Detergents
- Stationary Products
- Spices And Snacks Food
- Steel & Steel Products
- o Textile Auxiliary And Chemicals



Sectors We Cover cont...

- Township & Residential Complex
- o Textiles And Readymade Garments
- Waste Management & Recycling
- Wood & Wood Products
- Water Industry(Packaged Drinking Water & Mineral Water)
- Wire & Cable





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∞To get a detailed scenario of the industry along with its structure and classification ∞To provide a comprehensive analysis of the industry by covering aspects like: ∞Growth drivers of the industry Subscriptly by Barbary Strength Stre >>>Insights on regulatory framework **SWOT** Analysis **©Demand-Supply Situation** ∞Foreign Trade >Porters 5 Forces Analysis



Objective

- ∞To provide forecasts of key parameters which helps to anticipate the industry performance
- ∞To help chart growth trajectory of a business by detailing the factors that affect the industry growth
- ∞To help an entrepreneur/manager in keeping abreast with
 - the changes in the industry
- ∞To evaluate the competitive landscape of the industry by detailing:
 - >>>Key players with their market shares
 - >>>Financial comparison of present players







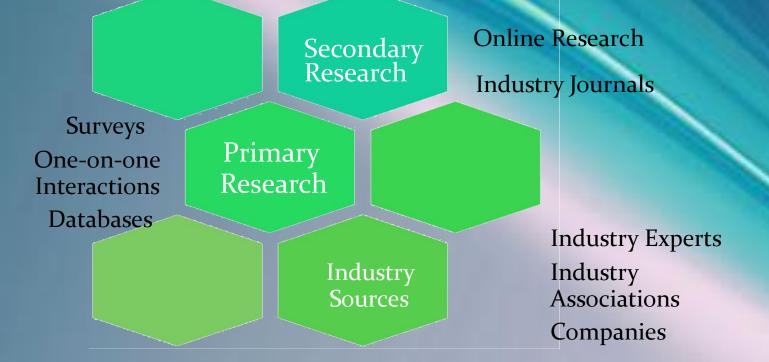
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Data Sources



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Our research team comprises of experts from various financial fields:
MBA's
Industry Researchers

&Financial Planners

>>>Research veterans with decades of experience





Structure of the Report

- •1. Overview
- •2. Market Analysis
 - \Box 2.1Growth Drivers
 - □2.2Emerging Trends in the Industry
 - □2.3Regulatory Framework
 - □2.4SWOT Analysis
 - 2.5Herfindahl–Hirschman Index (HHI)
- •3. Market Forecasts
- •4. Key Players

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Structure of the Report

Cont

So 5. Key Financials and Analysis
So 5.1 Contact Information
So 5.2 Key Financials
So 5.3 Financial comparison
So 6. Industry Size & Outlook





Take a look at NIIR PROJECT CONSULTANCY SERVICES on #Street View



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THANK YOU

