

CLEAR DIAMOND



High Performance
Screen Protection
Films

PROTECTION PLUS⁺™

Kills 99% of all germs and
bacteria on your screen



THE FILMS ARE IDEAL FOR A WIDE RANGE OF:

Touchscreen kiosks

Control panels

Monitors

Automotive displays

Consumer electronics

High usage touchscreens such as kiosks, self-service check-ins and check-outs, cash registers and ATM's, need protecting against scratches and breakage. The films act as an anti-shatter protection and multiple repetitive touch points of damage.

The Clear Diamond Range comprises grades for temporary protection during manufacture and shipping. The antistatic grades are ideal for automotive displays preventing dust settling on the screens. Our screen protectors have excellent anti-scratch properties with up to 7H hard-coating perfect for the aftercare market and OEM applications.

The films are coated with high grade silicone adhesive which are optically clear and give optimum clarity to the screens. The hard silicone adhesive is specially formulated to be clean removable leaving no adhesive residue on the screen even after prolonged usage. Clear Diamond high quality films work very effectively on both capacitive and resistive touchscreens and are quick and easy to apply.



| Code | Film μm | Total Thickness μm | Adhesive | Peel Adhesion gram/in^2 | Tensile Adhesion kg/in^2 | Hardness |
|---------------|--------------------|-------------------------------|-------------|---|--|----------|
| CD 670PO | 60 | 70 | Silicone | 25 | 7 | - |
| CD 556AS | 38 | 38 | Acrylic | 9 | 5 | - |
| CD 652AS | 125 | 165 | Silicone AS | 1.5 | 50 | 3H |
| CD 858T | 100 | 130 | Silicone | 20 | 45 | 3H |
| CD 858S | 100 | 130 | Silicone | 20 | 45 | 3H |
| CD 700H | 100 | 145 | Silicone | 15 | - | 7H |
| CD 712HC | 100 | 120 | Silicone | 5 | 20 | 2H |
| CD 712AG | 100 | 120 | Silicone | 5 | 20 | 2H |
| CD 810AV | 100 | 130 | Silicone | 5 | 8 | 3H |
| CD 810AV (60) | 60 | 90 | Silicone | 5 | 5 | 3H |

Clear Diamond Protection Plus+™

Prevention is better than a cure.

Our high performance anti-viral/anti-bacterial protection films kills 99.9% of bacteria and pathogens. The hard-coat surface incorporates pure metal nano-technology which prevents bio-film colonization of the surface. The surface treatment will kill Covid and Influenza viruses and a range of virulent bacterium such as, Methicillin-resistant Staphylococcus Aureus, E-Coli, Klebsiella Pneumoniae and Salmonella Typhimurium, greatly reducing the risk of cross-contamination.

Our Protection Plus+ grades of screen protectors have been tested to ISO 21702 and ISO 22196 showing immediate impact on viral and bacterial surface contamination with excellent log reduction of the contaminants after 30minutes, with a 99.68% eradication of the Covid virus.



CD 712HC/CD 712AG

PRODUCT DESCRIPTION

A 100 micron thick optically clear / anti-glare protection film. PET film with a clean removable silicone adhesive the film has an anti-bacterial treatment and a 2H anti-scratch hard-coat designed for mobile phones, e-readers, tablets, and touch screens.

Optically Clear / Antiglare coat

PRODUCT STRUCTURE

- ▶ Surface Protection Tape (PET 38µm)
- ▶ 2H
- ▶ PET Film (100µm)
- ▶ Silicone Adhesive (15µm)
- ▶ Release Film (PET 50µm)

CD 810AV

PRODUCT DESCRIPTION

Is a product with a nano-silver treated hard-coat surface coating which is anti-viral, anti-bacterial and anti-fungal. The 100 micron PET film has a 30 micron coating of an optically clear silicone adhesive which is clean removable after prolonged periods. The film has been tested to ISO 21702 which is an anti-viral test. Designed for touch-screen applications for high usage kiosks and monitors.

PRODUCT STRUCTURE

- ▶ PET (50µm) Top Liner
- ▶ Anti-Viral Hard-Coating
- ▶ PET Film (100µm)
- ▶ Silicone Adhesive (25µm)
- ▶ Release Film (PET 50µm)

CD 810AV (60)

PRODUCT DESCRIPTION

This film is a 60 micron PET film with the same anti-viral, anti-bacterial and anti-fungal hard-coat which is 3H anti-scratch.

The film is designed to give protection to a wide range of surfaces, ideal for work benches, tables, serving counters.

The film prevents surface contamination.

PRODUCT STRUCTURE

- ▶ PET (50µm) Top Liner
- ▶ Anti-Viral Hard-Coating
- ▶ PET Film (60µm)
- ▶ Silicone Adhesive (25µm)
- ▶ Release Film (PET 50µm)

Long Term Quality Protection Solutions

CD670PO

PRODUCT DESCRIPTION

A 60 micron thick polyolefin film coated with a silicone adhesive that is clean removable. The film is used for home appliances such as televisions. CD670PO is soft and comfortable for curved surfaces and has a clean removable adhesive leaving no residue.

Temporary Protection

PRODUCT STRUCTURE

PO Film (60µm)
Silicone PSA

CD556AS

PRODUCT DESCRIPTION

A 38 micron thick PET film with a low coat-weight acrylic adhesive. The film has an anti-static treatment and prevents the attachment of dust and particles to glass or Polycarbonate screens. The film is transparent and the adhesive is clean removable. It is designed for protecting screens in the manufacturing process.

Temporary Protection

PRODUCT STRUCTURE

- ▶ PET Film (38µm)
- ▶ Anti-Static treatment
- ▶ Acrylic adhesive (7µm)
- ▶ Silicone PSA

CD652AS

PRODUCT DESCRIPTION

A 125micron thick PET film with a 40micron coating of silicone adhesive. It has a 3H anti scratch hard coating and is antistatic. Protection for glass touchscreens, PMMA and Polycarbonate screens.

Permanent Protection

PRODUCT STRUCTURE

- ▶ Hard Coated layer
- ▶ Primer
- ▶ PET Film (125µm)
- ▶ Silicone PSA (Anti-Static)
- ▶ PET Liner

CD 700H

PRODUCT DESCRIPTION

Is a 100 micron PET film with a 45µ thick high grade silicone adhesive which is optically clear and is clean removable. The adhesive allows good adhesion to curved surfaces. The surface hard-coat is 7H and extremely resistant to abrasion and scratches, the film also has exceptional impact resistance ideal for industrial goggles, visors, sports goggles and glasses.

PRODUCT STRUCTURE

- ▶ PET (50µm) Top Liner
- ▶ Clear Hard-Coating (15µm) 7H
- ▶ PET Film (100µm)
- ▶ Clear Silicone PSA (30µm)
- ▶ PET Liner (75µm)

CD 858S / CD 858T

PRODUCT DESCRIPTION

A 100 micron thick matt anti-glare/optically clear protection film with a clean removable silicone adhesive. The film has a 3H anti-scratch hard coat and it is designed for the aftercare market for smart phones, and all types of touch-screen devices.

Optically Clear / Anti-Glare

PRODUCT STRUCTURE

- ▶ PET Film (100µm)
- ▶ Silicone PSA (30µm)
- ▶ Silicone PSA
- ▶ Liner
- ▶ 3H



Clear Diamond™ Applications



INDUSTRIAL

Touchscreens are now commonly used as control panels on industrial machinery and should be protected from contamination and damage especially in the food manufacturing and preparation industries.

High levels of hygiene and cleanliness are crucial in food manufacturing and the prevention of contamination. By applying a Clear Diamond screen protection film, to a touchscreen control panel in the factory you are ensuring that the screen stays contamination free and prolongs the working life of the screen.



EDUCATION

The use of touchscreens is increasingly used in schools and colleges worldwide. This can be multi-user tablets, laptops and PC's, which inevitably harbour bacterial colonies or viral contamination which are highly infectious.

Clear Diamond screen protection films greatly reduce contamination and infection, also reducing the amount of cleaning time and materials.

Applications: Interactive Play Tables, Tablets for Infant Schools Protection of PC's in schools colleges and Universities



RETAIL SECTOR

The retail sector has seen a great increase in the usage of touchscreen technology with kiosk becoming common in supermarkets for self-service checkouts, cash registers and information store guides. The films can remain on the screens for up to a year protecting the consumer and the screen from damage. High levels of cleanliness and care should be taken to protect the consumer.

Applications: EPOS, Cash Registers, Tablets



MEDICAL USAGE

Clear Diamond™ anti-viral / anti-bacterial films are highly effective in infection control the films have been tested to ISO 21702 and to ISO 22196 proving the efficacy of the technology with the Covid Virus being destroyed completely within 30 minutes.

The films contain proprietary technology in the surface hard-coat, which is optically clear containing nano-silver which eradicates viral and bacterial pathogens rapidly. The hard-coat is 3H and protects the screens from scratches, impact damage and repetitive point of contact damage.

Clear Diamond™ surface protection films are ideal for use in the medical sector preventing infection and cross contamination. Protection Plus+™ kills a wide range of viruses, bacteria and fungi, greatly reducing the risk of HAI (hospital acquired infection).

Applications: Monitors, Control panels, Tablets, Hand-held devices



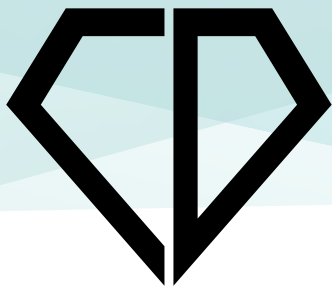
TRANSPORTATION

Touchscreen Kiosks are used extensively as self-service check-ins at airports, for mass transport ticket machines, these are high public usage screens which are inevitably contaminated and need protection.

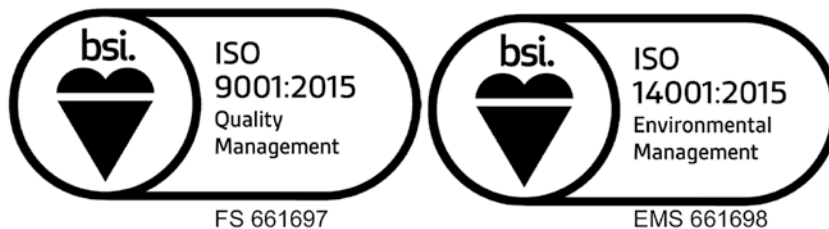
Research has shown that self-service ticket machines on the London Underground show a very high level of contamination 2560 CFU which is the bacterial count on a surface area of 10cm². Average CFU on food surface is 100 CFU/50cm².

Applications: Airport Self-Service Check-in Kiosks, Ticket Machines for Public Transport, Parking Ticket Machines, Entertainment Screens on Aeroplanes





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