

# ITI - NTECH Rear Projection Film - Overview

## Application Description:

Rear screen projection films are used in a wide variety of application, as they offer a cost effective, space effective solution to many projection applications, such as:

- Digital Signage
- Information Kiosk
- Home Theatre
- Video Conferencing
- Advertising and Point of sale
- Casino and Restaurants
- Exhibition & Shows
- Museums
- Simulators
- And many other applications.



ITI-NTECH films can be attached easily to windows, display cabinets, acrylic surfaces and allow to utilize previously 'wasted' spaces for visual information and advertising.

The ability to cut these films into any shapes makes them very versatile and allows for creative display solutions, not possible with fixed format LCD or Plasma displays.

Together with the new type of LED or long life (Sanyo 20000 hrs) projectors, the Projection Film makes a very effective 24/7 projection combination.

In addition any sound distribution can be positioned to where the audience is, away from the actual display.

5 different types are available, of which 4 are self adhesive and have the following key-features:

- Light weight
- High Contrast ratio and wide viewing angle
- Easy to install
- Cost saving
- Eye-catcher
- No or low hot spot

Available in 1.54 meter wide and roll length between 20-30 meter.

Side benefit:

The self adhesive foils also serve as added security in case of glass break. The film will hold the glass particles together and make penetration more difficult.



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**Technical Data** (As of April 2010. Subject to change at any time):

Properties	Opti-Transparent film	White	Gray	Dark Grey	Double White
<b>Self Adhesive</b>	Yes	Yes	Yes	Yes	No
<b>Width 1.524 mm</b>	Yes	Yes	Yes	Yes	Yes
<b>Peak gain</b>	6	5	4	3	6
<b>Viewing angle (degree)</b>	150	150	120	120	180
<b>Contrast</b>	200:1	200:1	300:1	400:1	200:1
<b>Hardness</b>	3	2	2	2	2
<b>Type</b>	Clear	Opaque	Opaque	Opaque	Opaque
<b>Foldable:</b>	No	NO	NO	No	No
<b>Rollable:</b>	Yes	Yes	Yes	Yes	Yes

<b>Opti-Transparent:</b>	A clear projection foil, which will take any image from any angle. At the same time allows full visibility of objects behind the screen or full transparency if not projected upon. This film can be employed similar to holographic screens, with the projector set at a very high angle. However the screen does not have the same light control features as a holographic film. Care must be taken that the projection beam can not blind the viewer.	Applications: Shop Windows Display boxes Semi-Holographic displays
<b>White opaque</b>	This white coloured projection foil is ideal for all applications. It does not change the colour or contrast of the projected image. If attached to glass, it prevents the mirroring of subjects in front of the screen, as can be experienced with darker film. This material can also be used as a glass diffuser as it does not change the incoming light colour. It can also be used as a diffuser for LED lighting.	Application: Shop Windows Display Boxes Exhibitions Museums Training rooms Diffuser for LED
<b>Gray</b>	A typical rear projection film. Ideal for all projection environments where accurate colour rendition is required. This film has a lower gain than the White opaque film, but offers an increased contrast.	Applications: Home Theatre Boardroom Training room Simulator Control Room
<b>Dark Gray</b>	Due to its dark colour, this film will create a strong impact. An increased contrast ratio will make the colours stand out. At the same time the film is less obtrusive.	Applications: Shop Window Display Boxes Car displays Training room Control rooms Simulator Point of Sale
<b>Double White</b>	This is a non self-adhesive film which has excellent diffusion characteristics. It is not only ideal for projection, but can also be inserted into lamp filter holder or act as a diffusion film for LED lights and light sources. The film can be attached with Velcro to any surface including aluminium projection frames.	Application: Any projection application. LED light diffusion