

General Formulations produces a variety of mounting films designed to be adhered to printed media for use as a pressure sensitive graphic. Mounting films are most commonly used in double-sided printing applications where the image is to be seen on both sides. Materials that can be used include, but are not limited to; rigid plastics, 8 or 10 pt. paper board, and synthetic papers. Additionally single sided prints such as photos can be mounted as well using clear or white blockout material and standard cold laminating techniques to produce a pressure sensitive graphic.

All of these mounting films are designed to mount graphics to a smooth substrate. The graphic should be a lightweight construction using a type of media as listed in the examples above. These films are not designed for structural or nameplate applications. The permanent films, GF 106, 107 and 112, are designed for interior use only while the removable films have a six-month exterior removability from glass.

All General Formulations' mounting solutions have a carrier film with a pressure sensitive adhesive (PSA) on both sides. The adhesive that goes against the printed substrate side is always a permanent PSA designed for excellent bond and wet-out of the printed media. The adhesive can be either a permanent or removable PSA depending on the ultimate function of the graphic, i.e. whether it is being attached to a temporary surface such as a window, or a permanent surfaces such as a substrate. Based on the processing equipment of the facility and the application for the graphic, a variety of liners are provided on General Formulations' mounting films. Some products are self-wound with only one liner while other options have two liners, one on each adhesive. Generally, if ultimate clarity is required for the graphic, two liners (like on our GF 106 product) will provide a smoother adhesive finish and higher clarity than a choice that is self-wound on one liner. Additionally, GF 116 and 117 use an air egress liner in conjunction with a High Tack Removable adhesive to provide an easy and bubble free of application without the use of a wetting solution for large graphics. GF 116 has a clear air egress liner that allows visibility of the second surface graphics when a two sided graphic is produced. GF 117 uses a white air egress paper liner when viewing the second surface graphic is not critical. When using an air egress liners, the micro etching of the removable adhesive will slightly affect the clarity. This is known characteristic of all air-egress liners. GF recommends testing films before production to ensure that the product achieves the image clarity one desired when using



WINDOW GRAPHIC USING GF 117 AIR EGRESS, HIGH TACK REMOVABLE MOUNTING FILM

## TABLES OF THE CHARACTERISTICS OF GENERAL FORMULATIONS MOUNTING FILMS

SERIES	LAMINATING ADHESIVE	LINER	CARRIER FILM	ATTACHMENT ADHESIVE	LINER	DESCRIPTION
<b>Permanent PSA/Clear Liner/ Clear Carrier/ Permanent PSA/ Clear Liner</b>						
106	Clear Permanent Acrylic	1.5 mil Clear PET	1.0 mil Clear PET	Clear Permanent Acrylic	1.5 mil Clear PET	Liner each side. Ultra clear adhesive for laminations that require a no adhesive look. Permanent adhesive bond.
<b>Primary Substrate:</b> Glass, Plexiglas, Smooth Plastics <b>Primary Application:</b> Optically Clear One or Two Sided Graphics to Smooth Surface						
<b>Permanent High Tack PSA/ Opaque Carrier/ High Tack Permanent PSA/ Paper Liner</b>						
107	Clear High Tack Permanent Acrylic	-	1.5 mil White PP	Clear High Tack Permanent Acrylic	76# White Bleached Paper	Self wound with liner on attachment adhesive side. Opaque carrier film to cover attachment substrate. Permanent adhesive bond.
<b>Primary Substrate:</b> Opaque Substrates, Gator Foam, Foam-Core, Sintra, Smooth Plastics, Painted Surfaces <b>Primary Application:</b> Standard Permanent One Sided Graphics to Smooth Surfaces						
<b>Permanent High Tack PSA/ Clear Carrier/ Permanent High Tack PSA/ Paper Liner</b>						
112	Clear High Tack Permanent Acrylic	-	0.5 mil Clear PET	Clear High Tack Permanent Acrylic	76# White Bleached Paper	Self wound with liner on attachment adhesive side. Clear adhesive for laminations that require the substrate to be visible. Permanent adhesive bond.
<b>Primary Substrate:</b> Glass <b>Primary Application:</b> Standard Permanent One or Two Sided Graphics to Smooth Surfaces						
<b>Permanent High Tack PSA/ Clear Carrier/ Low Tack Removable PSA/ Clear Liner</b>						
113	Clear High Tack Permanent Acrylic	-	1.0 mil Clear PET	Clear Low Tack Removable Acrylic	1.2 mil clear PET Printed	Self wound with liner on Low Tack Removable adhesive. Clear carrier to allow application substrate to be visible. Clear liner to see backside graphics on two sided decals. Removable adhesive bond.
<b>Primary Substrate:</b> Glass <b>Primary Application:</b> Standard Clarity One or Two Sided Removable Graphics for Glass with Clear Liner						
<b>Permanent High Tack PSA/ Clear Carrier/ Low Tack Removable PSA/ Paper Liner</b>						
114	Clear High Tack Permanent Acrylic	-	1.0 mil Clear PET	Clear Low Tack Removable Acrylic	76# White Bleached Paper	Self wound with liner on Low Tack Removable adhesive. Clear carrier to allow application substrate to be visible. White paper liner. Removable adhesive bond.
<b>Primary Substrate:</b> Glass <b>Primary Application:</b> Standard Clarity One or Two Sided Removable Graphics from Glass with Opaque Liner						

SERIES	LAMINATING ADHESIVE	LINER	CARRIER FILM	ATTACHMENT ADHESIVE	LINER	DESCRIPTION
<b>Permanent High Tack PSA/ Clear Liner/ Clear Carrier/ High Tack Removable PSA/ Clear Air Egress Liner</b>						
116	Clear High Tack Permanent Acrylic	1.0 mil Clear PET	1.0 mil Clear PET	Clear High Tack Removable Acrylic	4.5 mil Clear PET Air Egress	Liner each side. Clear carrier to allow application substrate to be visible. Clear liner to see backside graphics on two sided decals. Air egress liner provides ease of application for large graphics. Removable adhesive bond.
<b>Primary Substrate:</b> Glass						
<b>Primary Application:</b> Easy Application One or Two Sided Removable Decals from Glass with Clear Liner						
<b>Permanent High Tack PSA/ Clear Liner/ Clear Carrier/ High Tack Removable PSA/ Paper Air Egress Liner</b>						
117	Clear High Tack Permanent Acrylic	1.0 mil Clear PET	1.0 mil Clear PET	Clear High Tack Removable Acrylic	90# White Bleached Paper Air Egress	Liner each side. Clear carrier to allow application substrate to be visible. White stay flat liner on High Tack Removable adhesive for flat processing and storage. Air egress liner provides ease of application for large graphics. Removable adhesive bond.
<b>Primary Substrate:</b> Glass						
<b>Primary Application:</b> Easy Application One or Two Sided Removable Decals from Glass with Opaque Liner						
<b>Permanent High Tack PSA/ Clear Liner / Clear Carrier/Low Tack Removable PSA/ Clear Liner</b>						
118	Clear High Tack Permanent Acrylic	1.5 mil Clear PET	1.0 mil Clear PET	Clear Low Tack Removable Acrylic	1.2 mil clear PET Printed Low Tack Side	Liner each side. Clear carrier to allow application substrate to be visible. Clear liner to see backside graphics on two sided decals. Removable adhesive bond.
<b>Primary Substrate:</b> Glass						
<b>Primary Application:</b> Better Clarity One or Two Sided Removable Decals from Glass						

General Formulations' mounting films can be used for a variety of applications as noted above but are certainly not limited to these. Among the primary applications for mounting films are bonding one or two sided graphics to glass with a temporary removable adhesive. These films are ideal for producing short term removable point of purchase graphics. GF 113, 114, 116, 117, and 118 films, are designed for removable graphic applications to smooth surfaces such as glass, other applications must be thoroughly tested. If you need additional assistance in selecting the correct mounting film for your application contact your General Formulations' Customer Service Representative at 800-253-3664.