



A Window of Opportunity

MACTac® PSAs optimize performance by supplying an impenetrable seal

Window and door manufacturing has become a detailed and highly-engineered process. The success of a finished window or door unit comes down to just one thing: consistent performance even when faced with inconsistent environmental conditions.

At MACTac®, we've designed our pressure sensitive adhesive (PSA) systems with this in mind: Our pressure sensitive products ensure efficient assembly, optimize your window's functionality and allow greater design flexibility. We have engineered PSA systems for keeping moisture out, heat in and energy costs down through seals, glazing systems, muntins and insulated glass units – everything that makes a window successful.

Efficient – 15 percent more efficient.

Energy efficiency is a primary goal in product development. Our PSAs help you achieve this, providing an airtight seal that, according to our customers, increases energy efficiency up to 15 percent.

While energy efficiency is key, we know you face a variety of challenges, ranging from design to bottom line. Take a closer look at why our customers rely on MACTac PSAs:

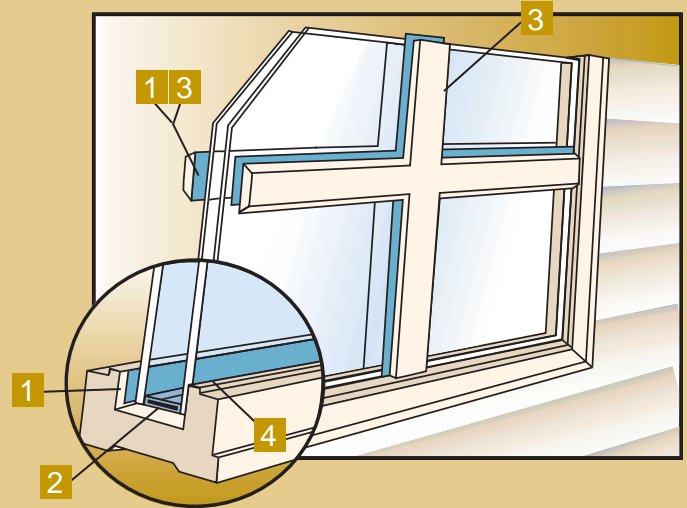
Flexibility. Gone are the design complications resulting from mechanical fasteners. With PSAs you're able to create a product without working around unfriendly rivets, screw heads and clips.

Ease of use. Pressure sensitive adhesives minimize assembly time – and more importantly – maximize productivity (units per hour).

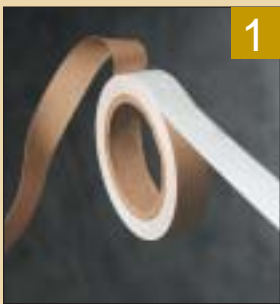
Costs. Pressure sensitive adhesive-coated parts can be die-cut for exact fit with accurate edge-to-edge bonding. Because they adhere immediately, dry time is eliminated, removing the need for drying equipment as well as special dispensing and application tools.

A picture is worth a thousand words.

The MACtac® PSA line features rubber and acrylic based free films and single and double-coated tape systems. Our extensive selection of liners provides superior design flexibility. We also have engineers who will work with you to custom-formulate the PSA product you're looking for. So, from start to finish, MACtac products are an important detail in getting the job done right, regardless of the application.



Take a closer look ... at where MACtac PSAs are found in window assembly.



Product:

MACmount® (IM Series). These tapes are double-coated polyethylene foams that feature an aggressive high-tack adhesive.

Applications:

Window glazing; muntin mounting; seals; weather stripping

Features/Benefits:

Weathertight performance prevents air and water penetration

Superior cold flex

Uniform sight line

Low odor

Economical alternative to traditional "bulk liquid" glazing methods (butyl, silicone, other sealants)

The double-coated adhesive systems may be tailored for optimum adhesion to different window component materials including PVC, wood, aluminum and glass

Thin, foam-based rubber and acrylic adhesive systems that provide a uniform sight line and consistent flexibility throughout operating temperature range

Low-profile adhesive systems match sight line requirements of recent trend to "simulated divided lite" designs

Provides good chemical resistance to diluted acids and alkalis

Works well with rough or pitted products

Bonds well to unplasticized vinyl, wood and painted aluminum



Product:

MACfilm® (IF Series). Included in our range of free films are general purpose (rubber) and high-performance (acrylic) products designed for high-temperature resistance and low surface energy bonding.

Applications:

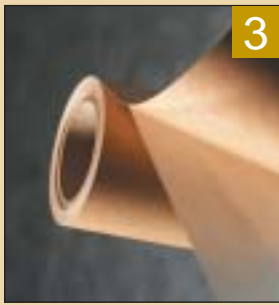
Insulated glass units

Features/Benefits:

Acrylic based free films provide low-outgassing/low-fogging properties for demanding insulated glass unit applications

Acrylic based free films (IF-3070 Series) available to provide very high-temperature resistance (up to 400° F/204° C)

Double-liner (paper/film) products available for improved window seal/insulated glass unit manufacturing and field installation

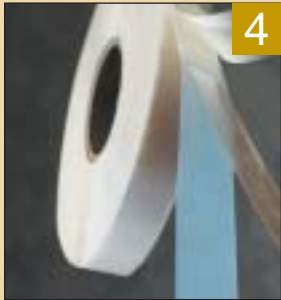


Product: **MACbond® (IB Series).** A diverse series of double-coated tapes.

Applications: Jamb gaskets (gap filling, insulation, sealing); weather stripping

Features/Benefits: Each adhesive of double-coated tape laminate systems may be customized for optimum adhesion to specific soft gasket foams and rigid window components

Rubber and acrylic based double-coated tapes bond well to low surface energy/ high surface energy materials



Product: **GS Series.** Provides aggressive adhesion through hot melt technology while minimizing personal safety and dispensing equipment issues.

Applications: General assembly; door and window seals; weather stripping

Features/Benefits: Excellent long-term balance of adhesion and shear strength when combined with PVC, wood and metal window materials

Manufactured in 5 – 50 mil thickness to aggressively bond irregular or mismatched surface parts

Adhesive thickness, width and pattern alignment are routinely customized to match specific applications

Double-liner (paper/film) version available for improved in-plant and on-site handling

Looking out the window – to the future

Capitalizing on its product portfolio, MACtac® has developed functional products designed to expand the capabilities of the window and door manufacturer.



Permasun®. This patented solar control film can be applied to existing and new windows / skylights for significant energy savings. Permasun reflects up to 68 percent of incoming solar heat and features a metallized surface that also blocks 99 percent of incoming ultraviolet rays. And it reduces glare by 64 percent. These features combine to limit solar gain, fabric fading and eye strain. Permasun is rated for internal or external applications to glass, polycarbonate or polymethyl methacrylate (PMMA) substrates.



MACmark® 9700^{PRO} Light Block. A cadmium-free, soft polymeric vinyl film, MACmark 9700^{PRO} Light Block is specifically used to restrict light penetration. It offers excellent layflat characteristics for easy application.



MACmark® Glass Décor 700. In some cases, you may want your window or door to draw as much attention as possible. That's why we offer MACmark Glass Décor 700. This series of translucent, non-colored vinyl films features dusted and frosted finishes for window and door marking and decoration. Use Glass Décor on lettering or intricate designs to create an etched, frosted or sandblasted look. The films are coated with a durable permanent acrylic adhesive that provides excellent wet out characteristics for clarity.

The Blueprint.

MACtac® is dedicated to both Six Sigma and ISO 9001 / QS 9000 certification. These disciplines allow us to follow a defined pathway to continuous product and service improvement.

Below you'll find a listing of our product line. Look it over and give us a call – we have an experienced staff waiting to equip you with the tools for a successful application.

Give us a call at 800.328.2619; e-mail
 MACTactechnical@MACtac.com or visit www.MACTac.com.

For more information on the solutions MACtac products provide to the construction industry, please request the following free literature:

The Construction Market Sticks with MACtac (#4017)
Stay Cool, Save Energy with MACtac Permasun® (#4015)
Product Guide (#4020)
Capabilities Brochure (#4002)

Product*	Liner	Carrier	CW	Applications	Benefits
IM-1800 IM-1810	83# PCK 83# PCK	1/32" White PE 6# foam 1/16" White PE 6# foam	HCW HCW	- Window assembly - Weather seals/gaskets	- High-performance adhesive - Gap filling between irregular or uneven surfaces - Load dispersion
IM-1900 IM-1930 IM-1940	80# SCK 80# SCK 80# SCK	1/32" White PE 6# foam 1/16" White PE 4# foam 1/8" White PE 4# foam	MCW MCW MCW	- General assembly and sub-assembly	- Gap filling between irregular or uneven surfaces - Bonds well to difficult low energy surfaces such as plastics and powder-coated paints
IM-2908 IM-2920 IM-2940	5 mil Blue HDPE 60# SCK 60# SCK	1/32" Black PE 6# foam 1/32" White PE 6# foam 1/16" White PE 4# foam	MCW MCW MCW	- Glazing tapes - Muntin bars - Window assembly	- Resists plasticizer migration from plastic or extruded parts - Gap filling between irregular or uneven surfaces
GS Series	60# SCK	Does not apply (free film)	5 - 50 mils	- Window installation - Sealing (against air and moisture)	- Thick film - High adhesion - Irregular surfaces
IB-1182 IB-1190 IB-1250	60# SCK 60# SCK 60# SCK	1/2" mil PET 1/2" mil PET 1/2" mil PET	MCW MCW MCW	- Weather seals - Jamb gaskets and foam - Window assembly	- Economical - Low profile - Adheres to wide range of materials - Two-sided construction provides both permanent bonding to initial substrate and removable bonding for temporarily holding products in place
IB-2100 IB-2151	60# SCK 60# SCK	1/2" mil PET 1/2" mil PET	HCW HCW	- Protection during packaging/shipping - Pane protection	- Resists plasticizers - Low profile - Adheres to various surfaces
IB-6200	60# SCK	Scrim mesh	MCW	- Window assembly - Weather seals/gaskets	- Resists plasticizers - Conformable - Reinforced adhesive
IF-2012/2013	83# PCK	Does not apply (free film)	2 mil 3 mil	- Weather stripping - Weather seals/gaskets	- High temperature - Low profile - Conformable
IF-2092	74# PCK	Does not apply (free film)	2 mil	- Window assembly - Weather seals/gaskets	- Low surface energy substrates

* This is a product sampling. Contact a sales representative for a complete listing.

Product Key (Standard roll size: 54" unless otherwise noted.)	
Liner	
80# SCK	= Semi-Bleached Super Calendered Kraft
60# SCK	= Semi-Bleached Super Calendered Kraft
83# PCK	= Brown Polycoated Kraft
74# PCK	= White Polycoated Kraft
HDPE	= High-Density Polyethylene
Carrier	
Adhesive Coat Weight	
PE	= Polyethylene
PET	= Polyester
HCW	= Heavy Coat Weight
MCW	= Medium Coat Weight



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