

Product Name	Attachment	Buzz Squeak & Rattle	Sound/ Noise Deadening	Hole Covers	Fastening	Gasketing, Sealing	Surface Protection	Shielding	Masking
Acrylic foam tape	■				■	■			
Acrylic transfer adhesive	■				■				
3M THINSULATE acoustical insulation			■	■			■		
Cellular urethane foam tape	■					■			
Polyethylene foam tape		■	■	■		■	■		
Foil tape			■	■				■	
EPDM foam tape		■				■			
EVA foam tape						■			
Flock fabric tape		■					■		
High strength film tape			■	■		■	■		
Hole cover tape	■			■		■			■
LDPE Protective Film tape		■	■	■			■		■
PVC foam tape	■	■	■	■		■	■		
Crushed EPDM Foam tape				■			■		
High Temp Masking Tapes				■					■
Traction -anti-slip tape							■		
3M Dualock Reclosable fasteners	■				■				
Molded foam repair tape				■		■			
UHMW polyethylene film tape		■		■					
Ultra high temp acrylic foam/foil attachment tape	■				■	■		■	
4 layered glass protection film					■		■		
Double coated polyester adhesive tape	■				■				

Select for more information

Light Fabrications' Automotive Products

For over 30 years Light Fab has supplied specialty converted product solutions that meet OEM specifications. We supply adhesive backed foam, film, foil and fabric spec materials to Ford, General Motors, DMX, Toyota, Nissan and other manufacturers and tiers. We are TS16949 Certified, Q1 to Ford and service customers worldwide. Contact us to learn more or discuss your product needs or visit www.lightfab.com.



Questions, comments? contact us or call 1-800-836-6920

ACRYLIC FOAM TAPE

PRODUCT DESCRIPTION:

LF 115 is a black, double-coated acrylic foam tape designed for the attachment of automotive exterior trim parts such as body side molding and claddings. This tape offers the following key features:

- Superior adhesion to automotive paint surfaces
- Conformable core delivering excellent wet out
- Black, high-strength core resulting in improved bond line quality
- Ability to tape trim components prior to paint
- Easy-liner release



PRODUCT CONSTRUCTION:

Construction:	Easy release liner black acrylic foam carrier
Adhesive:	High performance acrylic adhesive
Thickness:	1.14mm (.045in)

TYPICAL PHYSICAL PROPERTIES:

Performance test are run using standard test procedures. The values presented below are typical values and are not to be used for specification purposes.

BREAKAWAY AND CONTINUING PEEL:

72h at 22°C (72°F):	Breakaway Peel: 133 N/12.7 mm (30 lb/0.5in) Continuing Peel: 49 N/12.7mm (11 lb/0.5in)
72h at 70°C (158°F)	Breakaway Peel: 129 N/12.7mm (29 lb/0.5in) Continuing Peel: 76 N/ 12.7mm (17 lb/0.5in)
72h at 38°C/100%RH (100°F / 100%RH)	Breakaway Peel: 129 N/12.7mm (29 lb/0.5in) Continuing Peel: 80 N/12.7mm (18 lb/0.5in)

90° PEEL ADHESION

72h at 22°C (72°F)	62 N/12.7mm (14 lb/0.5 in)
72h at 70°C (158°F)	60 N/12.7mm (13.5 lb/0.5in)
72h at 38°C/100%RH (100°F / 100%RH)	37 N/12.7mm (15 lb/0.5in)

SHELF LIFE:

One year from date of receipt by customer when stored at 4°C-38°C (40°F - 100°F) and 0-95% relative humidity. Optimum storage conditions are 22°C (72°F) and 50% relative humidity.

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ACRYLIC TRANSFER ADHESIVE

PRODUCT DESCRIPTION:

Pressure sensitive TransferTape, specially formulated to be low fogging, with good adhesion to many lower surface energy materials. This tape is ideal for use in automotive interior applications.

PRODUCT CONSTRUCTION:

Adhesive Color:	Clear
Adhesive Thickness:	8.0 mils, acrylic
Liner Color, Type:	???
Liner Caliper:	4.2 mils

TYPICAL PHYSICAL PROPERTIES:

ADHESION TO STAINLESS STEEL:

ASTM D3330 modified (90° peel, 2 mil aluminum foil backing)
2 mil (0.002 inches) ounces/inch

15-minute room temperature:	47
72-hour room temperature:	168

STATIC SHEAR

ASTM D3654 1"x1" sample area: aluminum foil to stainless steel

TEMPERATURE	LOAD	MINUTES TO FAILURE
70°F (21°C)	2000 grams	10,000+
200°F (93°C)	1000 grams	10,000+
350°F (177°C)	500 grams	10,000+

APPLICATION IDEAS:

- Bonding metal nameplates and rating plates in the aerospace, medical and industrial equipment, automotive, appliance and electronic markets.
- Lamination to industrial foams for rotary die-cutting.



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3M THINSULATE ACOUSTICAL INSULATION

PRODUCT DESCRIPTION:

3M™ Thinsulate™ Acoustic Insulation is specifically designed for a wide variety of acoustic applications, including vehicle door panels, headliners, wheel wells, pillars, and instrument panels. It is compressible, lightweight, conformable, and can easily be die-cut, heat sealed, and thermally or sonically bonded to many other substrates.

TYPICAL PHYSICAL PROPERTIES:

Weight:	200g/m ² (.66 oz/ft ²)
Density:	25kg/m ³ (1.56 lb/ft ³)
Thickness:	8 mm (.31 inch)

AIR FLOW- ASTM C-522:

Resistance:	340 Rayls MKS
Resistivity:	42,000 Rayls MKS/meter

Thermal Properties:

R value	1.3 at 8 mm thickness
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Flammability Results:

TEST METHOD CLASSIFICATION	FMVSS 302 Pass
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CELLULAR URETHANE FOAM TAPE

PRODUCT DESCRIPTION:

High performance Cellular Urethane Foams from Light Fab are flexible, low to high density products that offer design engineers many outstanding features. These products maintain excellent resistance to compression set (collapse), exhibit high resiliency, good vibration damping and impact absorption.

Solution for demanding automotive challenges:

Gaskets & Seals for water, air, dust, light and EMI
Absorbers & Dampers for vibration, shock, impact & noise control
Cup Holders
Bin Liners
Heat Shields
Gap Spacers and Fillers

PRODUCT FEATURES/BENEFITS:

- Excellent compression set resistance which enables durable, long-term performance for gasketing, sealing, and cushioning.
- Low-outgassing and non-fogging, containing no plasticizers or residual chemicals to contaminate the device. The material will not become brittle and crumble and is non-corrosive to metal.
- Inherently flame retardant without the use of additives. Many of the materials meet flammability requirements of UL HBF and MVSS 302.
- Engineered urethane formulations offering a wide modulus range - 2-90 psi @ 25% deflection - for more design versatility requirements.
- Excellent performance over broad temperature range (-40°C to 90°C).
- Good chemical resistance.

PRODUCT CONSTRUCTION:

This product is cast to tight tolerances and in precise variations of firmness and internal strength.

These materials are supplied in thickness from 0.012" to 0.500" (0.43mm to 12.7mm) and are easily die cut and fabricated to shape.

Light Fab provides a broad array of engineered adhesives on one or both sides of these products to suit your application.



TYPICAL PRODUCT PROPERTIES:

PROPERTY	TEST METHOD	VALUE		
<i>PHYSICAL</i>				
Density , lb. / ft ³ (kg /m ³)	ASTM D 3574-95, Test A	15 (240)	20 (320)	30 (480)
		± 10		
Compression Set , % max.	ASTM D 1667-90 Test D @ 73°F (23°C)	5		
	ASTM D 3574-95 Test D @ 158°F (70°C)	10		
	ASTM D 3574-95 Test J/Test D autoclaved 5 hrs @ 250°F (121°C)	5		
Tensile Elongation , % min., Typical	ASTM D 3574-75 Test E	100	100	90
		140	135	130
Fogging	SAE J-1756 3 hrs @ 212°F (100°C)	Pass		
Gasketing and Sealing	UL JMST2 (Consisting of UL50 and UL508) CAN/CSA - C22.2 No. 94-M91	File MH15464 File 188149		
Ozone Resistance	GM 4486P-95	Pass		
Corrosion Resistance	AMS 3568-91	Pass		

The typical properties listed are for reference only and not to be used as specifications.

OEM SPECS:

FORD: WSS M2D 4961 FMVSS302 (flame resistance)
GM: 6098M Type 2 SAE-J 1756 (fogging)
DCX: MS-AY549

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POLYETHYLENE FOAM TAPE

PRODUCT DESCRIPTION:

Polyethylene Foams from Light Fab are a low cost, simple product solution for:

Anti-squeak and rattle needs

Gaskets & Seals for water, air, dust & light

Gap Spacers and Fillers

PRODUCT FEATURES/BENEFITS:

- Low cost when compared to other closed cell gasketing foams. We supply with high tack to low tack psa, excellent shear and aggressive bonding strength. We offer with low fogging high permanent and removable adhesives.
- Polyethylene foam tapes offer conformability and adhesion to irregular/uneven surfaces.

PRODUCT CONSTRUCTION:

This product is available single and double sided in black, gray or white. Thickness range: 1/32" - 3/16". Some products formulated for thermal insulation (R-factor = 0.75). UL rating on 1/32" foam. Product is easily die cut and fabricated to shape. Light Fab provides a broad array of engineered adhesives on one or both sides of these products to suit your application.

TYPICAL PHYSICAL PROPERTIES:

Adhesive thickness:	4.0 mils (0.0040")
Substrate Thickness:	1/32" (0.0313")
Peel Adhesion (PSTC-1):	90 oz/inch
Shear Adhesion (PSTC-7):	Indefinite @ 2.2 psi
Tensile (PSTC-31):	5.3 lbs/inch width
Elongation:	300%
Maximum use Temperature:	257°F
Minimum application temperature:	50°F

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OEM SPECS:

specifications per application

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FOIL TAPE

PRODUCT DESCRIPTION:

LF 189 Damping Foil is a pressure sensitive viscoelastic polymer on a dead soft aluminum foil. Designed for application to vibrating panels and support members. It is a unique construction with exceptional ability to control resonant vibrations in the temperature range of 32° to 140° F (0° to 60° C), with survivability from -25° to 175° F (-32° to 80° C).

TYPICAL DAMPING PROPERTIES:

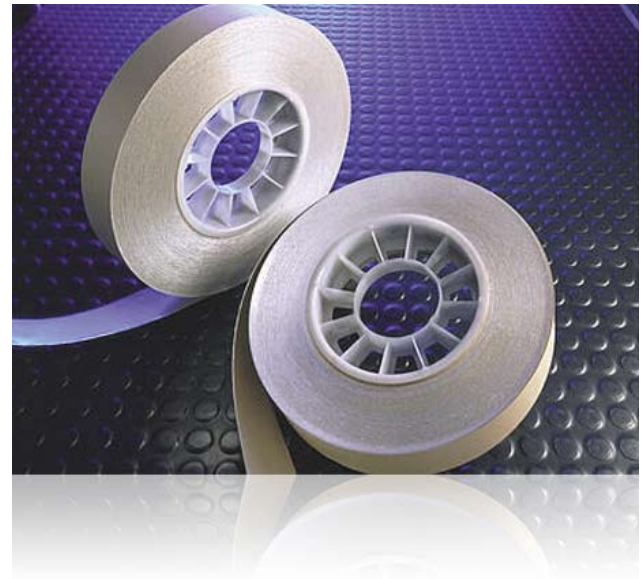
The high-energy dissipative polymer used in LF 189 Damping Foil can afford excellent control of resonance-induced vibrations. When applied to a vibrating structure, air-borne noise can be significantly reduced.

SOLVENT AND FUEL RESISTANCE:

When properly laminated between two impervious materials, the polymer will resist intermittent exposure to mild acids and alkalis, most oils, grease, gasoline, kerosene, JP-4 fuel, hydraulic fluids, and other typical aromatic and aliphatic hydrocarbon and ketone solvents. NOTE: Continuous submersion in chemical solutions like solvents or fuels is not recommended.

APPLICATION IDEAS:

- Industrial applications.
- Electronic equipment and appliances.
- Reduce resonant noise, vibration and fatigue in metal, plastic panels and support structures.



PRODUCT CONSTRUCTION & TYPICAL PHYSICAL PROPERTIES

Aluminum Backing:	10.0 mils (0.25 mm)
Acrylic Viscoelastic Polymer:	5.0 mils (0.13 mm)
Easy-release Liner:	58# poly-coated paper
Total Product Thickness:	15.0 mils (0.38 mm)
Total Product Weight:	0.17 lbs./sq. ft.
Adhesion to Steel:	65 oz./in. (72 N/100 mm)
ASTM Test Method: D-3330	
Tensile Strength:	126 lbs./in. (2205 N/100mm)
ASTM Test Method: D-3759	
Elongation at Break:	12%
ASTM Test Method: D-3759	
Temperature Use Range:	-25° to 175° F (-32° to 80° C)
Peak damping:	from 32° to 140° F (0° to 60° C)

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EPDM FOAM TAPE

PRODUCT DESCRIPTION:

High performance EPDM closed cell foam tapes from Light Fab are flexible, medium to high density products that offer design engineers many outstanding features. These products have good UV resistance and exhibit good resiliency, vibration damping and impact absorption.

Solution for demanding automotive challenges:

Gaskets & Seals for water, air, dust, light and EMI
Absorbers and Dampers for vibration, shock, impact and noise control
Cup Holders
Bin Liners
Heat Shields
Gap Spacers and Fillers

PRODUCT FEATURES/BENEFITS:

- Good compression set resistance which enables durable, long-term performance for gasketing, sealing, and cushioning.
- Good UV and chemical resistance.
- Conforms rough surfaces and gaps.
- Compression load at 25%=5oz/sq in; at 50%=11 oz/sq in.
- Good weatherability to low and high temperatures.
- Resists low compression stress - will never deform a structure after application.
- Good water seal tightness.

PRODUCT CONSTRUCTION:

This product is available in variations of firmness and thickness. It is easily die cut and fabricated to shape. Light Fab provides a broad array of engineered adhesives on one or both sides of these products to suit your application.



TYPICAL DATA:

PRIMARY PHYSICAL PROPERTIES

Adhesion-to-Steel - 180° Peel

Adhesive Activation

Tensile Strength

Elongation Percent

SECONDARY PHYSICAL PROPERTIES

Water Resistant

UV Resistant

Chemical Resistant

THERMAL / ELECTRICAL PROPERTIES

Minimum Application Temperature

Minimum Service Temperature

Maximum Short-Term Temperature

The typical properties listed are for reference only and not to be used as specifications.

OEM SPECS:

GM: 6098M Type 2

DCX: MS-AY430 Type 2

WSK-M2D419 Type 2

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FLOCK FABRIC TAPE

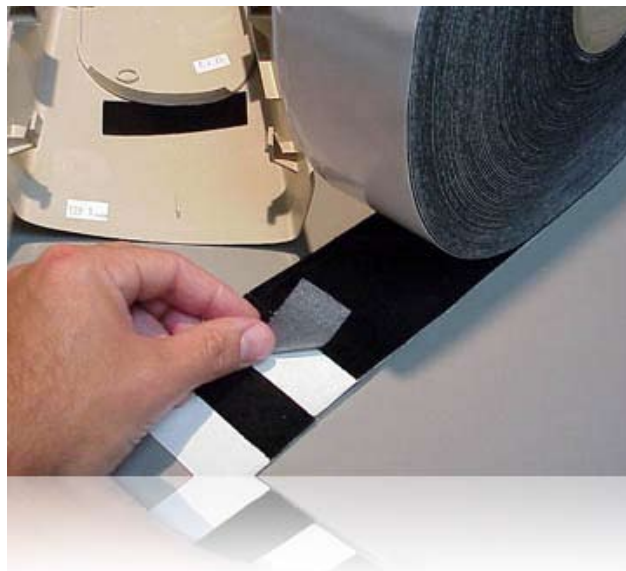
PRODUCT DESCRIPTION:

Noise buffering low fogging Flocked Fabric Tape is used between points where undesirable noise is produced. Most commonly used in interior automotive applications such as:

- A-Pillar, B-Pillar
- Channel Supports
- Window glass and body engagement areas
- Instrument panel assemblies
- Brake, trunk, glove box & vent assemblies, etc.

PRODUCT FEATURES:

- Sound deadening; elimination of squeaks and rattles
- Low wear with long term durability
- Permanent, non-fogging, non-staining acrylic adhesive bonds to virtually any surface
- Dry and wet abrasion resistance, chemical and UV resistance
- High fogging number
- Supplied in any put up desired: rolls, die cut on rolls, loose pieces, pad form, etc.
- LF 12 has very good abrasion, chemical, and ultraviolet resistance.



LF12 ANTI-SQUEAK & RATTLE FLOCKED TAPE MEETS OEM SPEC #'S:

GENERAL MOTORS: 6420M 1A

FORD: ESB M6G17A

DCX: MSJ 8Z 22

TECHNICAL DATA

Substrate:	100% Nylon Black Flock (50/50 Poly-Cotton Back)
Substrate Thickness:	.040" (1mm)
Adhesive:	Acrylic Based Pressure Sensitive
Thickness (total w/adhesive):	045" (1.12mm)
Elongation (min):	10%

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HIGH STRENGTH FILM TAPE

PRODUCT DESCRIPTION:

High strength urethane film tape from Light Fab is conformable, high performance, clear, permanent surface protection film. This product is sold to and used by automotive OEMs, aftermarket companies as well as consumers. This high performance product was designed to preserve the beauty and integrity of automotive finishes. Ideal for protecting Class A surfaces from scratches, stone chipping and environmental damage.

PRODUCT FEATURES/BENEFITS:

- Tough, urethane base provides protection, and high performance clear coat resists staining and yellowing.
- Custom die-cut or continuous roll good parts save time and money during application.
- Removability enables easy cost-efficient field repairs.

PRODUCT CONSTRUCTION:

Top Clear Coat
Thermoplastic Polyurethane 6 mil
Acrylic Adhesive 2 mil
Release Liner
Product thicknesses of 9, 11 and 15 mil total offer the right amount of protection and conformability to economically meet design parameters and application requirements.
High performance, pressure-sensitive adhesive ensures excellent adhesion to OEM paints and prevents costly field failures.

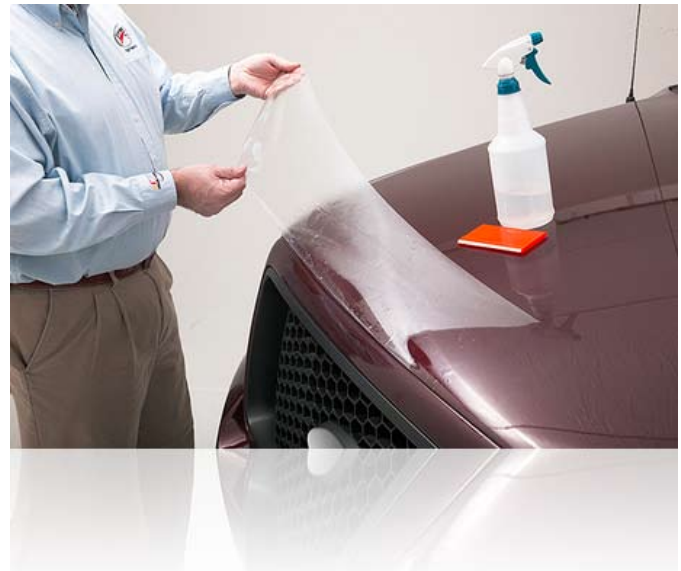
OEM SPECS:

Tested to OEM specifications for durability and performance requirements:

MS-CH68

ESB-M99J291-A1, A2, A5

GM 6254M



TYPICAL DATA:

PERFORMANCE TEST AND CONDITION RESULTS

Tensile MPa (PSI) 12 (1740)

Elongation 200%

PEEL ADHESION

Elongation Percent

Initial state	20 min @ 23°C (73°F) N/m (lb/in) 600 (3.4)
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Room temperature	72 hrs @ 23°C (73°F) N/m (lb/in) 700 (4.0)
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Heat resistance	168 hrs @ 70°C (158°F) N/m (lb/in) 700 (4.0)
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Moisture resistance	168 hrs @ 35°C/100% R.H. 700 (4.0)
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- 2 hrs @ 70°C (158°F) N/m (lb/in)

Thermal cycle 700 (4.0)

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HOLE COVER TAPE

PRODUCT DESCRIPTION:

LF 239 Hole Cover Tape is a high performance, BOPP film tape that will not delaminate with age. Product is easy "peel and stick" application and superior performance and durability over a wide range of temperatures and environmental conditions.

Hole Cover Tape was designed to cover:

- Metal frame holes, access holes and drain holes
- Screw holes or any where plugs or fluid or a seal is needed
- Lower cost alternative to rubber or molded plugs

Holes in vehicle frames, compartments and body can create issues such as: sealing problems, wind noise and pre-mature corrosion. Light Fab has developed an innovative a series of low-cost alternatives to molded hole-plugs. All of our hole covers are engineered and converted for your specific application and performance needs.

PRODUCT FEATURES/BENEFITS:

- Direct replacement for traditional black duct tape.
- UV resistant.
- Will not break down or delaminate over time.
- High performance line set tape performs well over a wide temperature range.
- Custom acrylic adhesive applies easily at temperatures as cold as -35°F and performs to +300°F.
- Higher adhesion and tack than traditional cloth duct tapes.
- Excels in high heat and humidity conditions.
- Zero permeability, absolute vapor barrier.
- Contains tested and approved mold inhibiting agents.
- Exceeds standard building design requirements (UL 723 10/20 Flame Spread/Smoke Rating).
- Meets requirements of FSIS Directive 5000.1, 9 CFR, Part 416 for USDA and FDA facilities and Department of Health and Human Services Construction Guide for Food Facilities.

OEM SPECS:

FORD: WSB M3G224A
DCX: MSCH 613
GM: 9985281/3626M

Hole Cover Alternative material options from Light Fab:

LF239- BOPP
LF182- UHMW PE Film Tape
LF LDPE & HDPE Film Tape
LF- PVC Foam Tape



PRODUCT CONSTRUCTION:

Bi-axially Oriented Polypropylene (BOPP) a 3-mil (76×) with solvent acrylic pressure sensitive adhesive.

Available in 5 different tested and approved laminates in 1, 3 or 5 ply construction and any shape or size.

Available in black, clear, natural aluminum & white.

We supply cut to any size or shape; typical hole covers are kiss cut circles or rectangles on rolls.

TYPICAL DATA:

Test Test Method

Product Thickness (Total) 3.0 mils 76.2 ×m PSTC-133

Thickness (Carrier) 1.5 mils 38.1 ×m PSTC-133

Thickness (Adhesive) 1.5 mils 38.1 ×m PSTC-133

Peel Adhesion 41 oz/in 11.4 N/25mm PSTC-101

Shear Strength >168 hours >168 hours PSTC-107

Tensile Strength 22 lb/in width 98 N/25mm width PSTC-131

Elongation 150 % 150 % PSTC-131

Minimum Application Temperature -35 °F -37 °C

Maximum Continuous Temperature 260 °F 127 °C

Maximum Intermittent Temperature 300 °F 149 °C

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LDPE PROTECTIVE FILM TAPE

PRODUCT DESCRIPTION:

Low Density Polyethylene Protective Tapes are low cost surface protection solutions. We supply LDPE tape with very low-tack to medium tack adhesive systems to help provide temporary protection of many Class A painted surfaces, polished metals, plastics and glass materials with minimum adhesion buildup and clean removal.

PRODUCT FEATURES/BENEFITS:

- Good abrasion resistance.
- Cost effective.
- Transparent backing allows visual inspection without tape removal.
- Acrylic adhesive is non-corrosive and non-staining.

APPLICATION IDEAS

- Automotive – trim: bi-metal aluminum-polished gloss, and interior plastic.
- Automotive lights, mirror lens & carpets.
- Graphic Arts – gloss screenprinted nameplates, aluminum signs painted gloss and polished polycarbonate.
- Plastics – sheeting: polished polycarbonate, polyester, acrylic and injection molded parts.
- Metals – anodized bright specular aluminum.

PRODUCT CONSTRUCTION:

Product is available in .002 - .008" thickness LDPE transparent film *colors available: blue, black & white - inquire
Product is self wound and available with very low tack to high tack adhesive systems, cut to any shape, perfed roll etc.



TYPICAL DATA:

Nominal Results ASTM Test Method

Adhesion to Steel: 3M tape 2104 3M tape 2105 D-3330

(oz./in. width) 12

Tack Level: Very Low

Tensile Strength: 2500 PSI / 1.7 MPA D-882 (Break or Yield)

Elongation: 450% D-882 (Break or Yield)

Total Tape Thickness: 2.0 mils (0.05 mm) D-3652

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OEM SPECS:

Per specific application requested

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PVC FOAM TAPE

PRODUCT DESCRIPTION:

LF 191 is an excellent alternative to low permeability urethane where long product life is critical. This foam is excellent for use in applications requiring a low force to compress.

- LF 191 is a closed cell structure that completely seals out air, moisture, light and dust when compressed at least 30%
- Formulated from durable Polyvinyl Chloride (PVC) for a long service life
- Cushions against shock and vibration
- Insulates against temperature, sound and vibration
- Ultraviolet resistant
- Resists most chemicals, acids, and bases
- Available with adhesive on one or both sides



TYPICAL DATA:

Density (lbs./cu.ft.):	7#
ASTM Test Method: D-1667	
Hardness (shore 00):	14
ASTM Test Method: D-2240	
Compression Deflection @ 25% (psi):	0.8
ASTM Test Method: D-1667	
Compression set @ 25%:	4
ASTM Test Method: D-1667	
Water absorption (% by volume):	1.1
Tensile Strength (psi):	25
ASTM Test Method: D-412	
Percent Elongation:	150
ASTM Test Method: D-412	
Thermal conductivity (K factor):	0.27
ASTM Test Method: C-518	
Recommended Service Temperature (F°):	-40° to 180°

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CRUSHED EPDM FOAM TAPE

PRODUCT DESCRIPTION:

Our Crushed EPDM Foam Tape is a superior weather and chemical resistant sealing product for gap filling, NVH, sound deadening, waterproofing, gasketing and more. Crushed EPDM is a synthetic rubber, semi-closed cell foam with high performance pressure sensitive adhesive on one side.

Typical product applications:

- Auto mirror seals
- Gasketing for door trim, acoustical speaker seals
- HVAC seals - ventilator, air conditioning unit, thermal insulation
- Weather stripping for automotive glass applications
- Sealing exterior lighting, ie. headlights, tail lamp housing
- Vibration reduction & isolation for interior auto components

PRODUCT FEATURES/BENEFITS:

- Superior weather-resistance and durability (approx. 10 year test evaluation), temp test (-20°C to 100°C), and chemical resistance.
- Easy compression, excellent conformability, filling in joints.
- Great Noise, Vibration and Harshness reduction material.
- Competitive replacement for J-OEM spec'd products ie. Nitto EE1010, Permacel EPT Sealer.

PRODUCT CONSTRUCTION:

Black crushed EPDM synthetic rubber foam: available in thickness from .0625" - 1.0" w/psa.

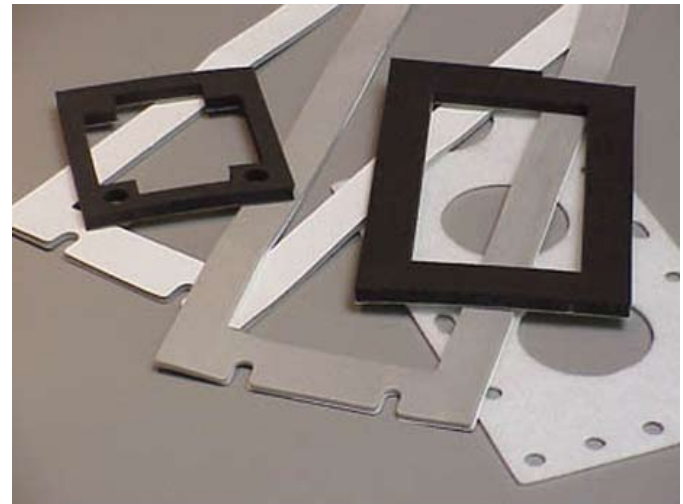
Pressure sensitive adhesive on one side or both. Standard product is 4 mil non-woven synthetic acrylic pressure sensitive adhesive.

TYPICAL DATA:

General Material Specifications:

Density:	0.8-0.16 gm/cm ³
50% Compressions:	40-140 gm/cm ²
Tensile Strength	0.5 kg/cm ² minimum
Elongation:	300% minimum

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OEM SPECS:

MS-AY550

TSK6505G-2A

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Contact us to learn more 1-800-836-6920

HIGH TEMP MASKING TAPES

PRODUCT DESCRIPTION:

Light Fabrications offers a family of masking products for many different applications and temperatures and in a wide variety of widths, thicknesses and adhesive coatings. Products such as:

Fine Line Masking Tapes

When the aesthetics of the finished product demand a sharp color separation with a flawless paint line, we offer a full line of fine line tapes. They offer all the characteristics necessary to meet your rigorous standards.

High Temperature Paint Masking Tapes

High Performance Masking tapes are a family of products that require the highest level of performance and temperature resistance for your most critical and unique applications.

PRODUCT FEATURES/BENEFITS:

- We offer these products die-cut pieces in roll form or individual pieces.
- Long length rolls to minimize roll changes..
- Skip slitting, perforating along the length to act as a tear strip.
- Piece form with added liner, extended on one or both edges for easy application. Example: 1" wide by 3" long on a 1.5" wide liner.

PRODUCT CONSTRUCTION:

We offer all products from crepe papers, to high temp film backed (ie. Kapton), with rubber, acrylic and silicone adhesive systems in a variety of colors, thicknesses to suit customers exact needs.



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TRACTION OR ANTI-SLIP TAPE

PRODUCT DESCRIPTION:

Light Fab Traction tapes are tough, abrasive anti-skid surface materials and feature a high tack, acrylic adhesive on the reverse side, for bonding to surfaces like painted metal, enamel, or wood. From coarse, abrasive particles for heavy traffic areas, to a finer, textured resilient film surface soft to the touch.

PRODUCT FEATURES/BENEFITS:

Designed to assist traction on potentially slippery surfaces on autos such as:

- Running boards
- Bumper steps
- Truck/cab bed liners
- Plant safety areas, stairs, wet areas, ramps

These tapes are provided die cut to any shape to fit your need and have a protective, removable liner covering the adhesive.

PRODUCT CONSTRUCTION:

Depending upon the product selected these tapes are made up of a top surface that covers the spectrum from coarse abrasive surfaces to a resilient polymer with a fine textured surface, with a variety of types and thicknesses of adhesive on the opposite side for use on a wide variety of bonding surfaces. All products come on a removable liner.

TYPICAL DATA:

Please contact a Lightfab representative to discuss your particular application. Once the potential solutions are narrowed down, they will be happy to supply you with a spec sheet for those products that will best fit your needs.



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3M DUALOCK RECLOSABLE FASTENERS

PRODUCT DESCRIPTION:

3M™ Dual Lock™ Low Profile Reclosable Fasteners consist of continuous strips of plastic backing, with tiny plastic mushroom shaped stems protruding up from the backing strip. When two pieces of fasteners are pressed together, the “mushroom heads” interlock with one another creating an audible snap, indicating the fastener is engaged. The product is used primarily to secure rigid and semi-rigid surfaces such as trim panels, instrument panel bezels and headliners.

PRODUCT CONSTRUCTION:

Material of Construction:	Polypropylene
Backing Color:	Clear
Adhesive Color:	Clear
Adhesive Type:	Acrylic
Liner Type:	6.5 mil 86# Polycoated Kraft

TYPICAL PHYSICAL PROPERTIES:

Weight, ounce/1 in.2 (grams/cm ²):	0.012 (0.044)
Operating Temperature Range:	-20°F (29°C) and up to 158°F (70°C)
Engaged Thickness, inch (mm) 4 15%:	0.107 (2.7) (without liner)
Plasticizer Resistance:	No
Closure Cycle Life:	25-100



APPLICATION FEATURES:

- **Easy alignment:** fasteners engage in any orientation.
- **Positive locking:** fasten with audible snap, assuring closure.
- **Reclosability:** can be opened and reclosed hundreds of times.
- **Blind attachment:** can be attached on the back of a trim piece where it won't interrupt the show surface.
- **Vibration absorption:** hundreds of mushroom stems damp vibration.
- **Rattle-free performance:** won't rattle loose.
- **Ease of assembly:** can be attached to components before they reach the assembly plant, reducing the parts inventory and assembly time.

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MOLDED FOAM REPAIR TAPE

PRODUCT DESCRIPTION:

A single coated, non-woven cloth tape with a custom formulated ultra-aggressive peel and stick adhesive. The adhesive was designed to bond to very hard to adhere to surfaces, like those used in making molded urethane automotive seat cushions.

PRODUCT FEATURES/BENEFITS:

- This tape is used to repair voids created during the molding process, instead of filling the void with a small amount of new foam.
- Can be die cut to any size/shape, and delivered kiss cut to the liner for ease of use.
- The hi-tack adhesive bonds to many hard to adhere to substrates.
- Product also can be used for anti-squeak and rattle, weather and other seals.

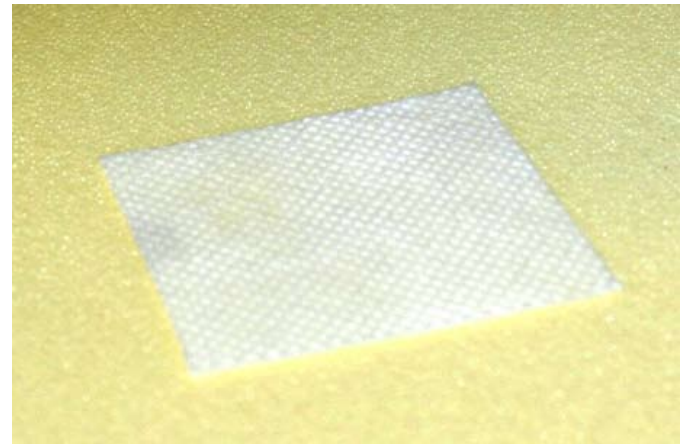
PRODUCT CONSTRUCTION:

2 oz, white, non-woven polypropylene fabric with a 5 mil, specially formulated rubber based adhesive on one side.

TYPICAL DATA:

Thickness (Adhesive) 5.0 mils PSTC 33 & ASTM D3652
Total Caliper Construction (sans liner): 15.0 mils
Peel Strength/Adhesion Properties: 204 ozf/in. Stainless PSTC 101 & ASTM D 3330
196 ozf/in. ABS (180o @ 12IPM, 20 min. dwell)
Shear Strength +10,000 minutes PSTC 107 & ASTM D 3654 (1" x 1", 500 grams)
Polyken Probe Tack ≈1200 grams ASTM D 2979 (1 sec. dwell, 0.5 cm/sec)
ADHESIVE
SAFT 155°F ASTM D 4498
(1" x 1", 500 grams, PET)

The typical properties listed are for reference only and not to be used as specifications.



OEM SPECS:

Per specific application requested

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UHMW POLYETHYLENE FILM TAPE

PRODUCT DESCRIPTION:

Ultra-High Molecular Weight Polyethylene (UHMW) Film coated with acrylic adhesive.

PRODUCT CONSTRUCTION:

UHMW:	.005" thick
Adhesive:	.005" thick

APPLICATIONS:

Designed for BSR (Buzz Squeak and Rattle) automotive applications requiring high adhesion to low surface energy material or bond to foams and fabrics where low fogging is required.

Reduces wear on components by making surfaces slide easier. Apply to low surface energy materials such as those found in dashboards and tailgates. Excellent mechanical and chemical abrasion resistance.



ADHESIVE PHYSICAL PROPERTIES AND PERFORMANCE CHARACTERISTICS:

180° PEEL ADHESION

2 mil polyester support, 1-minute dwell, 12 in/min

STAINLESS STEEL	POUNDS FORCE PER INCH	WIDTH NEWTONS PER METER
Unwind Side	5.0	876
Liner Side	6.5	1138

Test method: PSTC-3

Minimum Application Temperature: 30° F

Maximum Continuous Operating Temperature: 130° F

Maximum Intermittent Operating Temperature: 145° F

UHMW PHYSICAL PROPERTIES AND PERFORMANCE CHARACTERISTICS:

TEAR RESISTANCE:

Requirement:	2.0 kg minimum
Results:	1.96 kg average

TENSILE STRENGTH:

Requirement Type I:	15 Mpa minimum
Requirement Type II:	10 Mpa minimum
Results:	62.8 Mpa average

ELONGATION:

Requirement:	150% minimum
Results:	288% Elongation average

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4 LAYERED GLASS PROTECTION FILM

PRODUCT DESCRIPTION:

This product protects surfaces from all forms of graffiti such as:

Scratches
Spray Paint
Acid-etching
Gouges in retail, public facilities
Any street-level glass application

This 4 layer product aids in the destruction of a variety of surfaces. When applied to glass, the film also offers the extra benefits blocking heat, glare, and 99 percent of damaging ultra-violet rays. Easy application with no or little residue and paints and permanent markings are easily removed without harsh chemicals.

When surface is painted or defaced, simply remove top layer to expose the next defect free surface. Currently sold and used in:
Subway, railcars, mass transit
Retail store fronts
Commercial signage/graphics
Trade show glass tables, counters, displays
Automotive and commercial paint booths

PRODUCT FEATURES/BENEFITS:

- 4 LAYERS of .004" thick optically clear polyester with adhesive.
- Barely visible "stepped edge" cut away in one corner, so individual layers can be pulled off to expose the next layer.
- Gouge resistant leaves little or no residue upon removal.
- Can be applied to either interior or exterior locations.
- Easy removal, ELIMINATES permanent glass replacement and/or manual cleaning without the use of harsh chemicals or solvents.



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DOUBLE COATED TAPES

PRODUCT DESCRIPTION:

Light Fabrications provides an endless selection of double-coated tapes to your exact specifications. Double coated pressure sensitive adhesives (PSA) have adhesive on two sides of a carrier to bond to surfaces with hand pressure. They are available in solvent, latex, water based forms and often based on non-crosslinked rubber adhesives, acrylics or polyurethanes. They form a viscoelastic bond that is permanently tacky and requires no activation by water, solvent or heat.

We are your one stop shop for what ever thickness, tack level or bonding requirement you have. From temporary holding to permanent bonding, low to high temperature, flame retardant, electronically, thermally conductive, optically clear and low outgassing/fogging, we assist you with your tape and laminate selection. We supply engineered tapes made from a variety of substrates and carriers such as:

- Rubber adhesive
- Acrylic adhesive
- Rubber/Acrylic blend adhesive
- Silicone adhesive
- Hot melt adhesive
- Polyurethane adhesive
- Butyl adhesive
- Polyester, polyethylene, paper, tissue, polypropylene, & foam carriers

THEY ARE PERFECT FOR:

- Improving appearance, performance and manufacturing process.
- Good adhesion to both high and low surface energy substrates.
- Bonding dissimilar materials and hard to stick to materials.
- Sealing materials against dirt, dust, water, environmental conditions, bimetallic metal corrosion.
- Bonds are durable with high peel and shear strength and resistance to UV light, solvents, plasticizers and high temperatures.
- Cutting manufacturing costs, increasing production and simplifying operation (ie. screwing, welding, glueing).



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