

3M™ Bumpon™ Protective Products

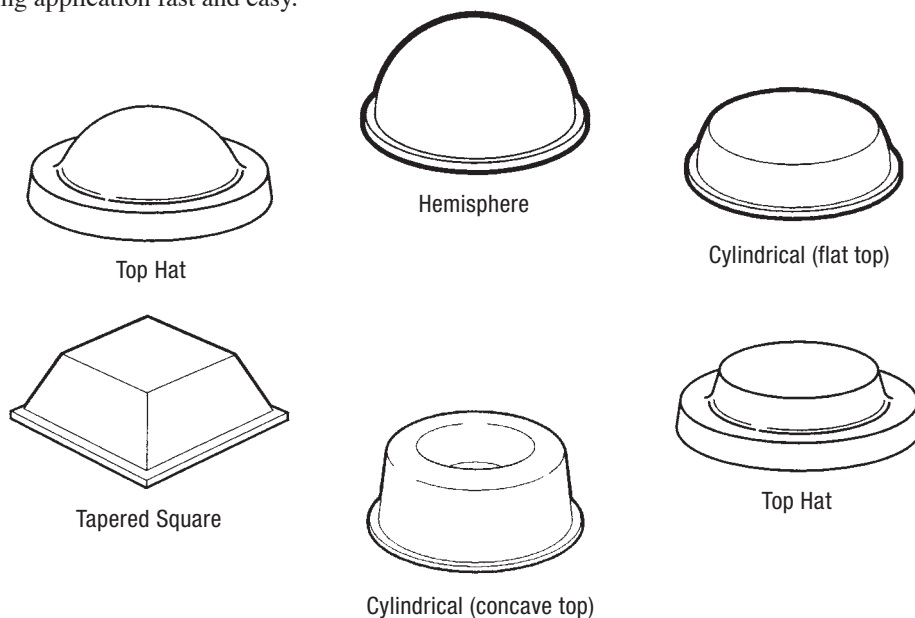
Molded Shapes - Colored and Clear Series

SJ5000 • SJ5300 • SJ5400 • SJ5500 • SJ5700 • SJ6100

Product Description

3M™ Bumpon™ Protective Products Molded Shapes - Colored and Clear Series are pressure-sensitive, adhesive-backed polyurethane products. They can be used as feet, stops, spacers, and protectors in many applications.

The urethane is a durable, resilient elastomer. The aggressive, high tack, pressure sensitive adhesive is protected with a release liner making application fast and easy.



Features

All 3M™ Bumpon™ Protective Products feature a plasticizer-free, urethane composition which exhibits:

- Excellent skid resistance
- Long aging resiliency – will not crack or harden
- Abrasion resistance
- Resistance to marring and staining

Application Ideas

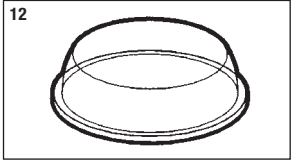
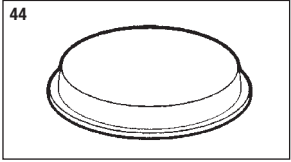
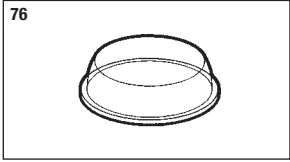
Use almost anywhere slamming, scratching, nicking, scuffing, marring, sliding, vibration, or noise could be a problem for your product.

- **Feet** on the bottom of small appliances, desk top or handheld electronic devices, electronic cabinetry, telephones, keyboards, foot pedals, scales, clocks, speakers, dispensers, and computers.
- **Stops** for cabinet doors, lids, and drawers.
- **Spacers** for picture frames to provide alignment; for electronic and automotive applications as an aid in assembly.
- **Protectors** to prevent damage in shipping, and keep parts from direct contact with each other.

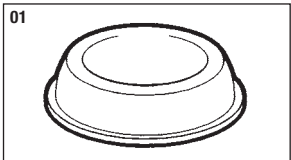
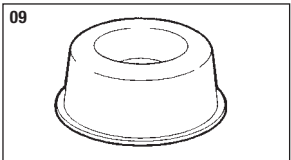
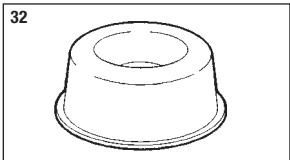
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3M™ Bumpon™ Protective Products

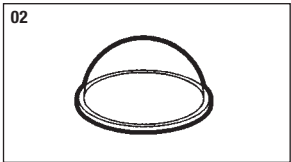
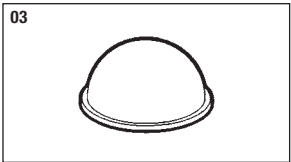
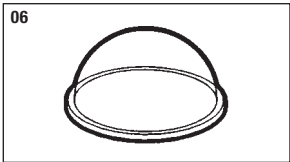
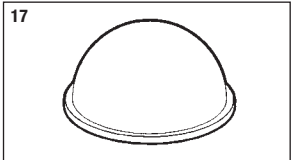
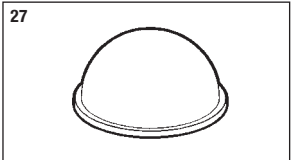
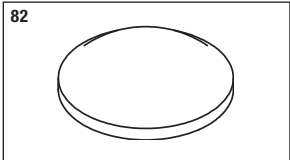
Cylindrical Shapes (with flat tops)

Molded Shape Number	12	44	76
			
Product Number	Bumpon SJ5012, SJ5312*, SJ5412**	Bumpon SJ5744, SJ5344*	Bumpon SJ5076, SJ5376*
Colors	Black, Brown, White, Gray, Transparent*, True White**	Black, Transparent*	Black, Transparent*
Width inches (mm)	0.50 (12.7)	0.75 (19.1)	0.315 (8.0)
Height inches (mm)	0.14 (3.5)	0.16 (4.1)	0.110 (2.8)
Pad Format	5x8 (40)	4x10 (40)	8x7 (56)

Cylindrical Shapes (with concave tops)

Molded Shape Number	01	09	32
			
Product Number	Bumpon SJ5001	Bumpon SJ5009, SJ5309*	Bumpon SJ5532
Colors	Black	White, Gray, Brown, Black Transparent*	Gray, Black
Width inches (mm)	0.50 (12.7)	0.88 (22.3)	1.88 (47.7)
Height inches (mm)	0.14 (3.5)	0.40 (10.1)	0.66 (16.7)
Pad Format	5x8 (40)	3x8 (24)	Separate Parts

Hemispherical Shapes

Molded Shape Number	02	03	06
			
Product Number	Bumpon SJ5302*, SJ5402**	Bumpon SJ5003*	Bumpon SJ5306*, SJ5406**
Colors	Transparent*, True White**	Black, Brown, Gray, Transparent*	Transparent*, True White**
Width inches (mm)	0.312 (7.9)	0.44 (11.1)	0.375 (9.5)
Height inches (mm)	0.085 (2.2)	0.20 (5.0)	0.150 (3.8)
Pad Format	8x18 (144) [Bumpon SJ5402] 17x24 (408) [Bumpon SJ5302]	8x7 (56)	6x8 (48)
Molded Shape Number	17	27	82
			
Product Number	Bumpon SJ5017, SJ5317*	Bumpon SJ5027, SJ5327*	Bumpon SJ5382*
Colors	White, Gray, Black, Transparent*	White, Gray, Brown, Black, Transparent*	Transparent*
Width inches (mm)	0.75 (19.0)	0.63 (16.0)	0.25 (6.4)
Height inches (mm)	0.38 (9.6)	0.31 (7.9)	0.075 (1.9)
Pad Format	4x10 (40)	5x8 (40)	8x18 (144)

*Bumpon SJ5300 series identifies transparent products. **Bumpon SJ5400 series identifies true white products.

Note: All dimensions ±0.02 inches or ±0.5 mm measured without the adhesive liner.

Important: Some Bumpon molded shapes listed (or specific color versions) may require special minimum order quantities. Consult your local 3M representative or our website: www.3M.com/Bumpons.

3M™ Bumpon™ Protective Products

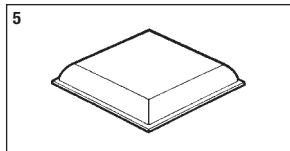
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3M™ Bumpon™ Protective Products

Tapered Square Shapes

Molded Shape Number



Product Number

Bumpon SJ5705, SJ6105

Colors

Black

Width inches (mm)

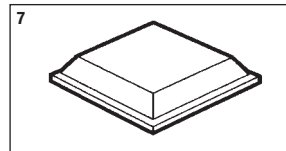
1.275 (32.4)

Height inches (mm)

0.250 (6.4)

Pad Format

3x3 (9)



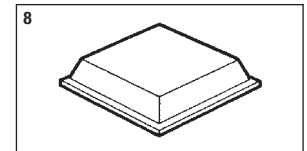
Bumpon SJ5007, SJ5307*

Black, White, Transparent*

0.413 (10.4)

0.98 (2.5)

6x9 (54)



Bumpon SJ5008, SJ5308*

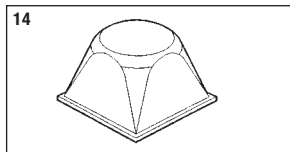
White, Gray, Black, Transparent*

0.50 (12.7)

0.12 (3.1)

8x10 (80)

Molded Shape Number



Product Number

Bumpon SJ5514

Colors

White, Gray, Black

Width inches (mm)

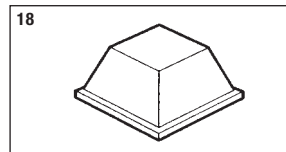
0.81 (20.6)

Height inches (mm)

0.52 (13.1)

Pad Format

4x1 (4)



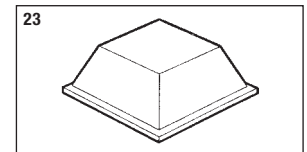
Bumpon SJ5018, SJ5318*

White, Gray, Brown, Black, Transparent*

0.50 (12.7)

0.23 (5.8)

8x10 (80)



Bumpon SJ5023, SJ5323*

White, Gray, Brown, Black, Transparent*

0.81 (20.5)

0.30 (7.6)

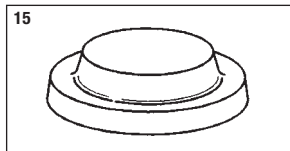
4x9 (36)

*Bumpon SJ5300 series identifies transparent products.

Note: All dimensions ± 0.02 inches or ± 0.5 mm measured without the adhesive liner.

Top Hat and Continuous Strip Shapes

Molded Shape Number



Product Number

Bumpon SJ6115 - Top Hat

Colors

Black

Diameter of Brim, inches (mm)

0.625 (15.9)

Height of Brim, inches (mm)

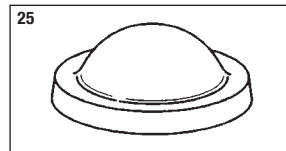
0.093 (2.36)

Total Height, inches (mm)

0.187 (4.75)

Form

5x8 (40)



Bumpon SJ6125 - Top Hat

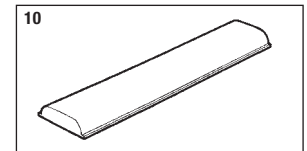
Black

0.625 (15.9)

0.093 (2.36)

0.250 (6.35)

5x8 (40)



Bumpon SJ5510 - Continuous Strip*

White, Gray, Black, Brown

Width, inches (mm): 0.50 (12.7)

Height, inches (mm): 0.15 (3.88)

50' rolls, 5 rolls per case

Note: Dimensions for Bumpon SJ6115 and Bumpon SJ6125 ± 0.005 inches (± 0.13 mm) for diameter ± 0.015 inches (± 0.38 mm) for height measured without adhesive liner. Bumpon Top Hat products were created as an optional, non-skid foot shape, to be used in a recess (see page 7). They provide high resistance to removal, knock-off or shearing, when used in conjunction with a recessed location.

*Continuous molded strip can be cut by the customer to a specific length. The surface has lines that appear every 9" on the strip.

Important: Some Bumpon molded shapes listed (or specific color versions) may require special minimum order quantities. Consult your local 3M representative or our website: www.3M.com/Bumpons.

Special Products

Custom Shape and Color

3M can match most colors and customize shapes to your specifications. 3M has over 100 available standard and custom molded shapes. Electronic format (CAD and PDF) drawings are available on request.

Special Easy Strip Packaging

Packaged into strips or die cut and perforated pads can help simplify some assembly operations. Product currently available:

- 3M™ Bumpon™ Protective Product SJ5518 die cut perforated on pads of 64
- 3M™ Bumpon™ Protective Product SJ5508 die cut and perforated on pads of 64
- 3M™ Bumpon™ Protective Product SJ5523 4x1 matrix separated by perforations
- 3M™ Bumpon™ Protective Product SJ5514 4x1 matrix separated by perforations

Note: Custom Bumpon products may require a qualifying minimum quantity and/or a one time set-up charge. Call your local 3M sales representative for more information.

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SJ5000 • SJ5300 • SJ5400 • SJ5500 • SJ5700 • SJ6100

Typical Physical Properties and Performance Characteristics

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

		3M™ Bumpon™ Protective Products		
3M Test Method		SJ5000 SJ5500 SJ5700	SJ5300 SJ5400	SJ6100
Hardness, Shore M	ASTM-D2240	72	75	72
Resilience, %	ASTM-D2632, 0.125" sample	30	5	30
Kinetic Coefficient of Friction (Mk) (Dependent on Test Surface)¹	ASTM-D1894 Stainless Steel	>1	>1	>1
	Glass	>1	>1	>1
	Formica® laminate	0.9-1.4	0.9-1.4	0.9-1.4
	Wood	0.9-1.4	0.9-1.4	0.9-1.4
Abrasion Resistance (Taber H18, 1kg) g/1000 cycles²	ASTM-C501	1.7-1.9	0.13	1.7-1.9
Tensile, lbs/in² (MPa)²	ASTM-D412, Die A	600 (4.1)	740 (5.1)	600 (4.1)
Elongation,%²	ASTM-D412, Die A	100	65	100
Dielectric Strength, volts/mil²	ASTM-D1000	200	370	200
Stain Resistance³	3M-24 hours @ 158°F against white paint 7 days exposed to UV.	No Staining	No Staining	No Staining
Flammability Listing	UL-94HB	Pass; UL Recognized	Not UL Recognized	Pass; UL Recognized
Application Temperature		40°F (5°C) to 125°F (52°C)		
Service Temperature	Constant: Intermittent:	-30°F (-34°C) to 150°F (66°C) Up to 225°F (107°C)		
Solvent and Fuel Resistance³	24 hour immersion 5% Detergent in water 25% Ammonia in water Bleach Hydrochloric Acid (1 Normal Solution) Diesel Fuel Auto Oil Isopropyl Alcohol Heptane Toluol Lacquer Thinner	No Apparent Effect No Apparent Effect No Apparent Effect No Apparent Effect No Apparent Effect No Apparent Effect Slight Swelling Slight Swelling Considerable Swelling Considerable Swelling		

Notes:

¹Two important laws of friction applicable to Bumpon products are: (1) Friction is independent of the area of contact between solids and (2) friction is proportional to the load between solid surfaces. Thus, if the load (weight) is doubled the force required to cause sliding is also double. This is expressed mathematically as follows: Sliding Force = M_k x weight.

²These properties were run on sheet material from the same materials as the individual Bumpon products

³Reference test for 24 hours. Results may vary for different product application conditions.

3M™ Bumpon™ Protective Products
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SJ5000 • SJ5300 • SJ5400 • SJ5500 • SJ5700 • SJ6100

Relative Adhesive Performance Characteristics

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

3M™ Bumpon™ Protective Products			
	SJ5000 SJ5500 SJ5700	SJ5300 SJ5400	SJ6100
Adhesive:	Natural Rubber R-30	Acrylic A-20	Synthetic Rubber R-25
Initial Adhesion Low Surface Energy: High Surface Energy:	Good Good	Poor Fair	Excellent Excellent
Adhesion (Peel) Low Surface Energy: High Surface Energy:	Good Good	Poor Good	Excellent Excellent
Static Shear 75°F (25°C): 120°F (49°C): 158°F (70°C)	Excellent Good Poor	Excellent Excellent Excellent	Excellent Good Fair
Dynamic Shear:	Good	Excellent	Good
Solvent Resistance:	Good	Excellent	Good

Adhesive Performance

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

The following table on peel adhesion provide representative performance characteristics of the adhesive systems used in the construction of 3M™ Bumpon™ Protective Products molded series products.

90° Peel Adhesion

***Peel Force, oz. Per 1/2 inch**

3M™ Bumpon™ Protective Products			
	SJ5000 SJ5500 SJ5700	SJ5300 SJ5400	SJ6100
Substrate:	Natural Rubber R-30	Acrylic A-20	Synthetic Rubber R-25
Polypropylene	25	3	52
Polystyrene	25	11	55
ABS	25	25	55
Stainless Steel	22	25	55
Aluminum	22	25	55

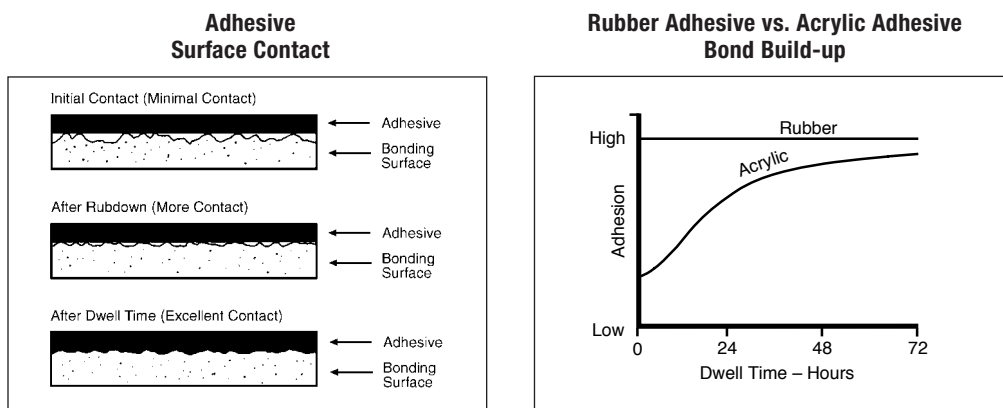
*3M Test Method TM-2011; 72 hour dwell, 1/2 inch wide samples pulled at 12 inches per minute. Testing completed using Bumpon Resilient Rollstock products SJ5816, SJ6016, and SJ6216, which use the same adhesive system as the molded series products.

Application Techniques

To obtain maximum adhesion, surfaces must be unified, dry, and free of contaminants. Surface contact is essential to adhesive performance. To maximize contact on a substrate:

- Clean surfaces with low strength solvent such as isopropyl alcohol (rubbing alcohol) or heptane.*
- Apply firm pressure to help increase the cold flow and contact of the adhesive with the substrate.
- Allow time (dwell) to increase the surface contact and adhesion (see illustrations below).

***Note:** Be sure to follow the manufacturer’s precautions and directions for use when using solvents.



Environmental Exposure

Colored and transparent 3M™ Bumpon™ Protective Products are intended for interior applications where resilience and other physical properties will remain unchanged. When exposed to UV light for extended periods some slight discoloration or yellowing may occur.

Bumpon products may be used outdoors in a protected area with some discoloration possible; colored Bumpon products may chalk.

Simultaneous exposure to high humidity and temperature may degrade (soften) the Bumpon product urethane.

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SJ5000 • SJ5300 • SJ5400 • SJ5500 • SJ5700 • SJ6100

Product Selections Considerations

Alignment

Alignment is more difficult with a rectangular shaped 3M™ Bumpon™ Protective Product when no recess is provided.

Circular shaped product



(top view)

Rectangular shaped product



(top view)

Point of Contact

The point of contact provides either a large contact area or a very small (point) contact area depending on the shape of the Bumpon product.

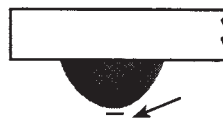
Flat



(side view)

- Increased load capacity
- Better wear resistance

Hemisphere



(side view)

- Increased sound dampening
- Increased energy absorption

Profile

The profile is defined by the height and the diameter (or width) of the Bumpon product.

Low Profile



- Increased load capacity
- Less susceptible to being sheared off substrate

High Profile



- Better heat dissipation
- Not recommended if sideways shearing is possible

Recess

A recess is not necessary; however, there are several benefits to providing a recess.



- Provides target area for the Bumpon product during attachment process
- Improves adhesion performance: impact absorption and shear strength
- Provides neater appearance
- Provides uniform location

Storage

Store in original cartons at 60° to 80°F (16° to 27°C) and 40 to 50% relative humidity.

Shelf Life

To obtain best performance, use this product within 18 months from date of manufacture.

3M™ Bumpon™ Protective Products

Molded Shapes - Colored and Clear Series

SJ5000 • SJ5300 • SJ5400 • SJ5500 • SJ5700 • SJ6100

Certification/Recognition

MSDS: Refer to Product Label and Material Safety Data Sheet for Health and Safety Information before using this product.

TSCA: This product is defined as an article under the Toxic Substances Control Act and therefore, it is exempt from inventory listing requirements.

RoHS: This product complies with the requirements of EU Directive 2002/95/EC and 2005/618/EC.

For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-251-8634. Address correspondence to: 3M, Electronics Markets Materials Division, 3M Center, Building 225-3S-06, St. Paul, MN 55144-1000. Our fax number is 651-778-4244 or 1-877-369-2923. In Canada, phone: 1-800-364-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

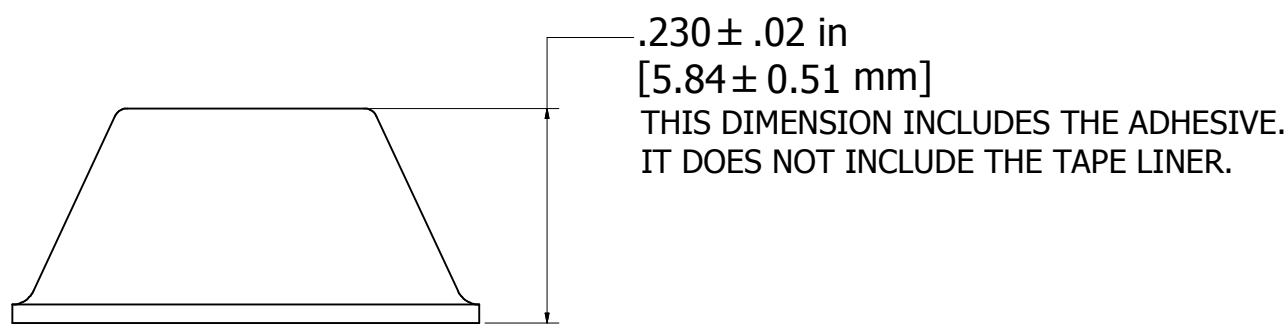
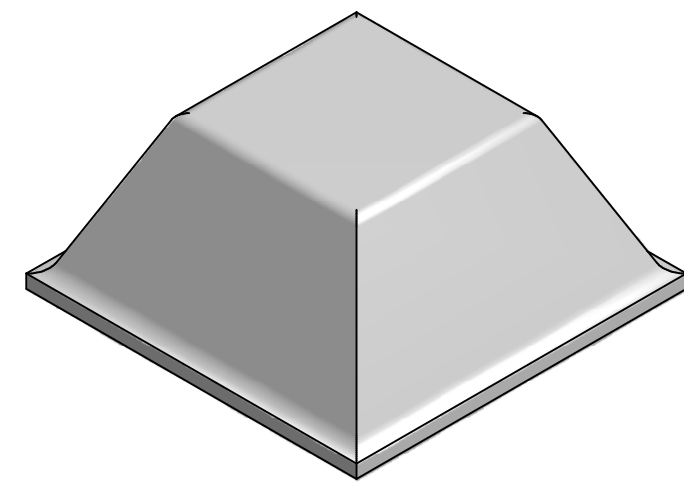
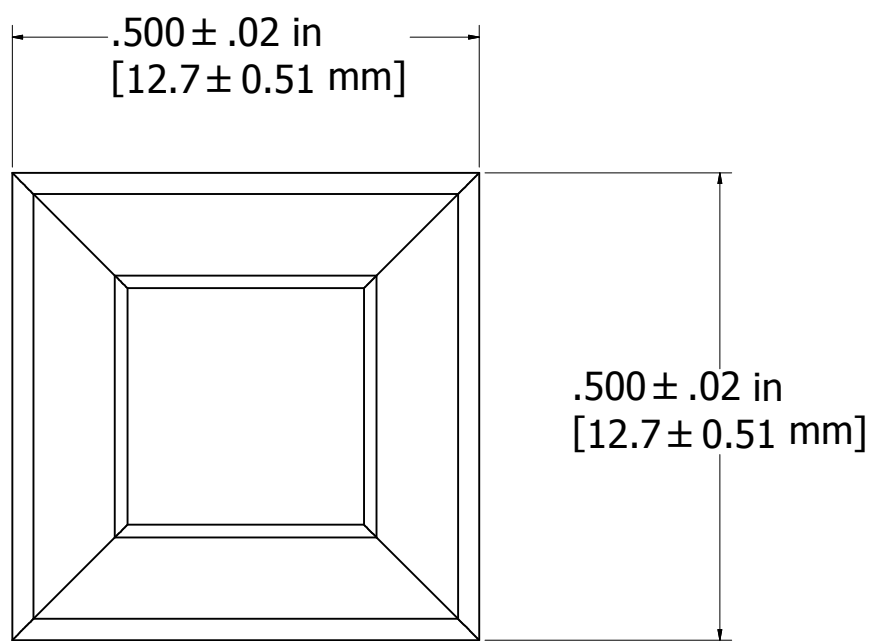
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8 x 10 PCS PER PAD
 38 PADS PER CASE
 3000 PCS PER CASE
 ALL RADIUS DIMENSIONS ARE REFERENCE ONLY

ACCESS CODES		DESIGN REFERENCE		NEXT ASSEMBLY	
REV	PROJECT ID	DATE	DESCRIPTION	DRWN	CHKD
DRWN	DATE	MFG	DATE		
a0fpazz	4/22/2010				
CHKD	DATE	APPVD	DATE		
 3M CENTER ST. PAUL, MN 55144		3M COPYRIGHT This document is the property of 3M Company. All rights reserved.			
TITLE					
SJxx18 BUMPON 3M BUMPON					
BLDG. NO.					
SIZE	DRAWING NUMBER	SHEET	REV		
D	SJxx18	1 OF 1			



Material Safety Data Sheet

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This material safety data sheet (MSDS) is provided as a courtesy in response to a customer request. This product is not regulated under, and a MSDS is not required for this product by the OSHA Hazard Communication Standard (29 CFR 1910.1200) because, when used as recommended or under ordinary conditions, it should not present a health and safety hazard. However, use or processing of the product not in accordance with the product's recommendations or not under ordinary conditions may affect the performance of the product and may present potential health and safety hazards.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M™ Bumpon™ Protective Product SJ5018 White
MANUFACTURER: 3M
DIVISION: Electronics Markets Materials Division
ADDRESS: 3M Center, St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

Issue Date: 04/18/11
Supersedes Date: Initial Issue

Document Group: 24-7948-3

Product Use:

Specific Use: Protective Products
 Intended Use: Industrial use

SECTION 2: INGREDIENTS

<u>Ingredient</u>	<u>C.A.S. No.</u>	<u>% by Wt</u>
Polyurethane Product	Trade Secret	95 - 99
Natural Rubber Adhesive	Trade Secret	1 - 5
Paper Liner	None	Not Applicable

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Odor, Color, Grade: White bumpon with paper liner

General Physical Form: Solid

Immediate health, physical, and environmental hazards: The environmental properties of this product present a low

environmental hazard. This product, when used under reasonable conditions and in accordance with the 3M directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

3.2 POTENTIAL HEALTH EFFECTS

Eye Contact:

No health effects are expected.

Skin Contact:

No health effects are expected.

Inhalation:

No health effects are expected.

Ingestion:

No health effects are expected.

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact: No need for first aid is anticipated.
Skin Contact: No need for first aid is anticipated.
Inhalation: No need for first aid is anticipated.
If Swallowed: No need for first aid is anticipated.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Autoignition temperature	<i>Not Applicable</i>
Flash Point	<i>Not Applicable</i>
Flammable Limits(LEL)	<i>Not Applicable</i>
Flammable Limits(UEL)	<i>Not Applicable</i>

5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

5.3 PROTECTION OF FIRE FIGHTERS

Special Fire Fighting Procedures: Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

Unusual Fire and Explosion Hazards: No unusual fire or explosion hazards are anticipated.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Not applicable.

6.2. Environmental precautions

Not applicable.

Clean-up methods

Not applicable.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING

Avoid prolonged or repeated skin contact. This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

7.2 STORAGE

Not applicable.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS

Not applicable.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection

Avoid eye contact.

8.2.2 Skin Protection

Avoid prolonged or repeated skin contact.

8.2.3 Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

8.2.4 Prevention of Swallowing

Not an expected route of exposure.

8.3 EXPOSURE GUIDELINES

None Established

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Odor, Color, Grade:
General Physical Form:

White bumpon with paper liner
Solid

Autoignition temperature	Not Applicable
Flash Point	Not Applicable
Flammable Limits(LEL)	Not Applicable
Flammable Limits(UEL)	Not Applicable
Boiling Point	Not Applicable
Density	Not Applicable
Vapor Density	Not Applicable
Vapor Pressure	Not Applicable
Specific Gravity	Not Applicable
pH	Not Applicable
Melting point	Not Applicable
Solubility in Water	Nil
Evaporation rate	Not Applicable
Volatile Organic Compounds	Not Applicable
Kow - Oct/Water partition coef	No Data Available
Percent volatile	Not Applicable
VOC Less H2O & Exempt Solvents	Not Applicable
Viscosity	Not Applicable

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.

Materials and Conditions to Avoid:

10.1 Conditions to avoid

None known

10.2 Materials to avoid

None known

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

Substance

Hydrocarbons
Carbon monoxide
Carbon dioxide

Condition

During Combustion
During Combustion
During Combustion

Hazardous Decomposition: Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

Not determined.

CHEMICAL FATE INFORMATION

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Reclaim if feasible. If product can't be reclaimed, dispose of waste product in a sanitary landfill. Alternatively, incinerate the waste product in an industrial, commercial, or municipal incinerator.

Since regulations vary, consult applicable regulations or authorities before disposal.

SECTION 14: TRANSPORT INFORMATION

ID Number(s):

70-0701-8292-1

Not regulated per U.S. DOT, IATA or IMO.

*These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M transportation classifications are based on product formulation, packaging, 3M policies and 3M understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and **not the packaging, labeling, or marking requirements**. The original 3M package is certified for U.S. ground shipment only. If you are shipping by air or ocean, the package may not meet applicable regulatory requirements.*

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS

Contact 3M for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - No Delayed Hazard - No

STATE REGULATIONS

Contact 3M for more information.

CHEMICAL INVENTORIES

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory listing requirements.

Contact 3M for more information.

INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

Health: 0 Flammability: 1 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

No revision information is available.

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