

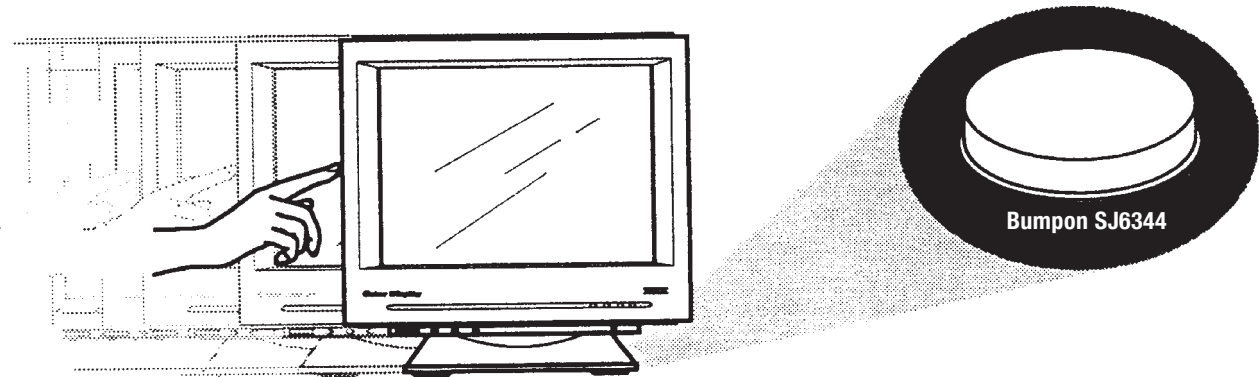
3M™ Bumpon™ Protective Products

Molded Shapes - Easy Slide Series

SJ6344

Product Description

3M™ Bumpon™ Protective Product SJ6344 is a pressure-sensitive adhesive-backed, molded polyurethane product. The Bumpon SJ6344 is called an Easy Slide Series because it incorporates a special abrasion resistant film in its construction, allowing the Bumpon to be used as a lower friction foot, for heavier product applications. Bumpon Easy Slide Series SJ6344 has a reduced coefficient of friction compared to our standard line of molded or rollstock version Bumpon products. In customer applications where protective anti-skid feet are preferred for heavier electronic or desktop items, but allows some sliding, the Easy Slide SJ6344 provides a unique solution. In cases where items would normally require lifting, Bumpon Easy Slide SJ6344 often allow it to be pushed or pulled slowly across a uniform surface.



Features

- Low coefficient of friction, Bumpon Easy Slide for heavier protective foot applications
- Larger size, cylindrical shape with flat top, provides good stability and load bearing capacity as protective foot
- Supports up to 40 lbs (18.2 kg) per Bumpon foot (160 lbs or 72.7 kg per four Bumpon feet)
- Solid polyurethane plus polyester film construction is non-marring and non-staining
- Excellent abrasion resistance
- Long aging – will not crack or harden
- 3M R-25 synthetic rubber, pressure-sensitive adhesive system. Quick bonding to variety of application surface materials, including tough to adhere to low surface energy plastics, finishes and coatings

Application Ideas

- Heavier TV or computer monitors, displays or on stands
- Larger countertop electronic kitchen appliances
- Other items weighing approximately 5 lbs (2.3 kg) up to 50 lbs (22.7 kg)

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Product Construction

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 Easy Slide SJ6344



Color:	Black
Width: inches (mm)*	0.75 (19) ± 0.005 (0.13)
Height: inches (mm)*	0.16 (4.0) ± 0.015 (0.38)
Shape:	Cylindrical
Form (matrix):	4 x 10
Low Friction Film:	Polyester
Elastomeric Fill:	Polyurethane
Adhesive:	R-25 synthetic rubber
Release Liner:	Translucent polyester with printed 3M logo

***Note:** All dimensions ± 0.02 inches or ± 0.05 mm measured without the adhesive liner.

Typical Physical Properties and Performance Characteristics

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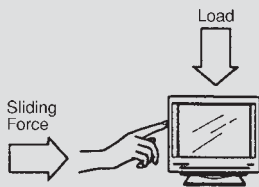
Property	Test Method	Test Results
Hardness, Shore M	ASTM-D-2240	72
Abrasion Resistance (Taber H18, 1kg)	ASTM-C-501	0.02 g/1000 cycles
Kinetic Coefficient of Friction:	ASTM-D-1894	
• Glass		0.3
• Formica®		0.2
• Stainless Steel		0.3
• Wood		0.2
Flammability Listing	UL-94HB	Pass UL recognized (color black only)

Friction
Two important laws of friction applicable to 3M™ Bumpon™ Protective Products are:

1. Friction is independent of the area of contact between two solids.
2. Friction is proportional to the load between two solids. Thus, if the load is doubled, the force required to cause sliding is also doubled. This is expressed mathematically as follows:
Sliding Force = (Kinetic Coefficient of Friction) x (Load)

Slide Force Example
Using the mathematical equation given above, the sliding force required to move a 20 lb. computer monitor across a Formica® tabletop is calculated as follows:

(Please note that the sliding force calculation shows a comparison between standard 3M™ Bumpon™ Protective Product SJ5744 and 3M™ Bumpon™ Protective Product SJ6344)



	Bumpon SJ5744	Bumpon SJ6344
Kinetic Coefficient of Friction (COF)	1.1	0.2
Load	20 lbs.	20 lbs.
Sliding Force = (COF) x (load)	22 lbs.	4 lbs.

Load Tolerance
The “recommended” maximum load which Bumpon SJ6344 will support is 40 lbs. (18 kg) per bumper at 70°F (21°C) to 150°F (66°C).

Application Temperature
40°F (4°C) to 125°F (52°C)

Service Temperature
-30°F (-34°C) to 150°F (66°C); 225°F (107°C) intermittent exposure.

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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 Easy Slide SJ6344	
Adhesive:	Synthetic Rubber R-25
Adhesion (Peel) Low Surface Energy: High Surface Energy:	Excellent Excellent
Static Shear 75°F (25°C): 120°F (49°C): 158°F (70°C)	Excellent Good Fair
Initial Adhesion Low Surface Energy: High Surface Energy:	Excellent Excellent
Solvent Resistance:	Good
Dynamic Shear:	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.

90° Peel Adhesion

Peel Force, oz. Per 1/2 inch

3M™ Bumpon™ Protective Products Easy Slide SJ6344	
Substrate:	Synthetic Rubber R-25
Polypropylene	52
Polystyrene	55
ABS	55
Stainless Steel	55
Aluminum	55

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

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Environmental Performance

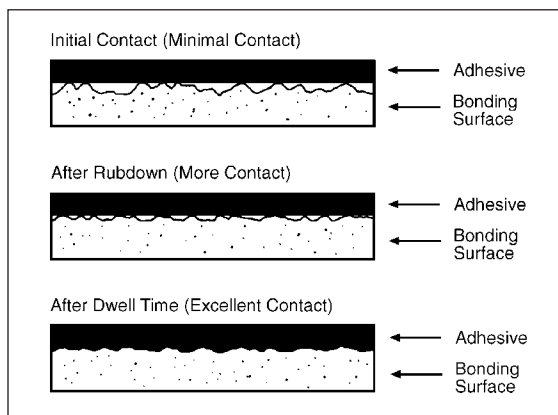
3M™ Bumpon™ Protective Product SJ6344 is intended for interior applications where resilience and other physical properties will remain unchanged.

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

**Adhesive
Surface Contact**



Note: Product selection is ultimately the responsibility of the user and should conduct their own tests under actual use and storage conditions to determine whether product is fit for a particular purpose and user’s method of application.

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.

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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.

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