**HDD Final Assembly**

**Liquid Adhesives and High-Performance Bonding Films.**
Bond magnet to housing on spindle motor; VCM flex circuit bonding, rigidizing, and other bonding, sealing and potting applications.

**Filtration Products.**
Breather filters, carbon breather filters, recirculation filters, carbon recirculation filters, and diffusional adsorbers.

**Vibration Damping Polymers For Spindle Motors.**
Mechanical damping reduces vibration from motor rotation.

**Vibration Damping Polymers For Cover/Base/Chassis.**
Acoustic damping of disk drive cover and base, sled/chassis, and provide drives in PC’s, servers and RAID systems.

**Vibration Damping Polymers For VCM.**
Provide significant reductions in acoustic noise.

**Acoustic Damping Material.**
Clean, electronic grade material to help reduce acoustic noise.

**Hydrofluoroethers (HFE’s).**
Coatings and cleaning fluids.

**Non-Silicone Gasket Materials.**
Form-in-place epoxy with non-silicone release liners.

**Perimeter Seal Tapes.**
Very low outgassing electronics grade adhesive with non-silicone liner.

**EMI Shielding and Anti-Static Tapes.**
Include conductive and non-conductive adhesives, metallized fabric-based and anti-static adhesive film for EMI shielding, grounding and static charge draining.

**Process Tapes.**
Temporarily seal to prevent contamination during manufacturing and assembly. Also use for defect marking, messaging and other clean room applications.

**Electronic Grade Laminating Adhesives.**
For tapes, seals, labels, and flex circuit bonding and rigidizing.

**High Stability/Cleanly Removable Labels.**
Resist flagging and edge lifting. Low outgassing.
High Stability Permanent Labels. Stable adhesive bonds permanently, resists flagging, and edge lifting yet removes cleanly from most surfaces. Low outgassing.

Packaging and Shipping Tape and Adhesive Products. A broad range of packaging and box sealing solutions.

Vibration Damping Polymers for Suspension/Arm. Reduces resonant vibration for improved read/write performance.

Vibration Damping Polymers For VCM. Clean, low outgassing polymers optimized for HDD temperatures.

Adhesives and High-Performance Bonding Films. Bond slider head to suspension; flex circuit to suspension; coil bonding to E-Block assembly; coils to coils.
For additional product information or to arrange for sales assistance contact:

**Location** | **Phone Number** | **Website**
--- | --- | ---
**NORTH AMERICA** |  |  |
3M USA | 1-800-362-3550 | www.3m.com/eadhesives
Adhesives and tapes | Fax: 651-733-9175 |  |
Abrasives | 1-800-742-9546 | www.3m.com/finishingsystems
Die-cut solutions | Fax: 1-800-852-4668 | www.3m.com/converter
Specialty materials | 1-800-360-6777 | www.3m.com/fluids
3M Canada | 519-451-2500 | www.3m.com/ca
1-800-364-3577 |  |
3M Mexico | 52-52-70-04-00 | www.3m.com/mx
**Correspondence:** |  |  |
3M Electronic Adhesives and Specialties Department |  |  |
Engineered Adhesives Division |  |  |
3M Center | Building 225-3N-11 |  |
St. Paul, MN 55144-1000 |  |  |

**SOUTH AMERICA** |  |  |
Brazil | 55-19-3838-7000 | www.3m.com/br

**ASIA PACIFIC** |  |  |
3M Asia Pacific Pte Ltd | 65-6450-8816 | www.3m.com/eadhesives
3M Australia Pty, Ltd | 61-2-9833-5333 | www.3m.com/au
3M China Limited | 86-21-6275-3535 | www.3m.com/cn
3M Hong Kong Limited | 852-2806-6387 | www.3m.com/hk
3M Japan - Sumitomo 3M Limited | 81-3-3709-8261 | www.mmm.co.jp

**EUROPE** |  |  |
3M Austria | 43-1-866860 | www.3m.com/at
3M Belgium | 32-2-7225111 | www.3m.com/be
3M Czech Republic | 420-2-61380111 | www.3m.com/cz
3M Denmark | 45-43-480100 | www.3m.com/dk
3M East | 41-41-7994040 | www.3m.com/ch
3M Finland | 358-9-5252542 | www.3m.com/fi
3M France | 33-1-30-316161 | www.3m.com/fr
3M Germany | 49-2131-140 | www.3m.com/de
3M Ireland | 353-1-2803555 | www.3m.com/ie
3M Israel | 972-9-9561490 | www.3m.com/il
3M Netherlands | 31-71-5450450 | www.3m.com/nl
3M Norway | 47-63-847500 | www.3m.com/no
3M Spain | 34-91-3216000 | www.3m.com/es
3M Sweden | 46-8-922100 | www.3m.com/se
3M Switzerland | 41-1-7249090 | www.3m.com/ch
3M United Kingdom | 44-870-6080-050 | www.3m.com/uk

**IMPORTANT NOTICE:** 3M MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user’s method of application. Please remember that many factors can affect the use and performance of a 3M product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M product. Given the variety of factors that can affect the use and performance of a 3M product, some of which are uniquely within the user’s knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user’s method of application.

**LIMITATION OF REMEDIES AND LIABILITY:** If the 3M product is proved to be defective, THE EXCLUSIVE REMEDY, AT 3M’S OPTION, SHALL BE TO REFUND THE PURCHASE PRICE OF OR TO REPAIR OR REPLACE THE DEFECTIVE 3M PRODUCT. 3M shall not otherwise be liable for any loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including but not limited to contract, negligence, warranty, or strict liability.

3M

Electronic Adhesives and Specialties Department
Engineered Adhesives Division
3M Center Bldg. 220-7E-01
St. Paul, MN 55144-1000
www.3m.com/eadhesives

Recycled paper
40% pre-consumer
10% post-consumer
Printed in U.S.A. © 3M 2002 78-9236-7062-0