



# Diamond Lapping Film 661XU

Technical Data Sheet

January 2004

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**Product Description**

Tightly graded diamond mineral is precision coated on a polyester film backing. This durable construction provides consistent processing, and superior finishes throughout the life of the product. Available with or without PSA (Pressure Sensitive Adhesive) backing.

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**Applications**

Fiber optic connector processing, flat lapping, superfinishing.

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**Substrates**

Ceramics, glass, stone, carbide, composites, exotic alloys and other hard materials.

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**Key Features**

- Long Life
- Produces superior surface finish
- Reduces overall process time
- Produces high yields
- Eliminates slurries
- Consistent results throughout life of product.
- Used in many applications and on a multitude of machines

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**Converted Forms**

Sheets, Discs and Rolls  
Maximum diameter and width 12".

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**Backing**

Polyester Film  
Nominal thickness: 3 mil  
Actual thickness: 2.97 ( $\pm$  0.05)  
Ultimate tensile strength - 26,500 psi (typical)

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**Mineral Size  
Grading Chart**

Micron Grade (nominal)	Color
0.5 $\mu$	White
1 $\mu$	Lavender
3 $\mu$	Pink
6 $\mu$	Brown

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**Bonding Resins** Medium resin hardness

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**Storage and Shelf Life** Recommended Storage Conditions:  
Temperature 50 – 90°F  
Relative humidity 30 – 70%  
(There is no degradation with time. It is recommended that product be used within 24 months of purchase.)

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**Number of Uses** 3M Diamond Lapping Film 661XU is intended for multiple uses. The number of uses are dependent on equipment, process parameters and materials processing.

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**FOR ADDITIONAL INFORMATION:** To request additional product information or to arrange for sales assistance, call 1-800-251-8634. Address correspondence to: 3M Industrial Business Customer Response Center, Building 21-1W-10, 900 Bush Avenue, St. Paul, MN 55106. Our fax number is 651-733-9175. 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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**Industrial Business**

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