

**Manufacturer:**

3M™

**Product Name:**

3M™ 661XU Diamond Lapping Film Disc - 4.25 inch 3µm (micron)

**Manufacturer Part Number:**

D3-661XU-4253N

▶ [Click here for more details on the 3M™ 661XU Diamond Lapping Film Disc - 4.25 inch 3µm \(micron\)](#)



# Diamond Lapping Film 661XU

**Technical Data Sheet****January 2004****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.

**Applications**

Fiber optic connector processing, flat lapping, superfinishing.

**Substrates**

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

**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

**Converted Forms**

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

**Backing**

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

**Mineral Size  
Grading Chart**

| Micron Grade<br>(nominal) | Color    |
|---------------------------|----------|
| 0.5 µ                     | White    |
| 1 µ                       | Lavender |
| 3 µ                       | Pink     |
| 6 µ                       | Brown    |

**Contact the professionals at Fiber Optic Center for a quote or to get more details.**

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Product specifications and data are subject to change without notice. FOC last update 1/7/2026.



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**Bonding Resins**

Medium resin hardness

**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.)

**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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