

[Learn More](#)**Manufacturer:**

3M™

**Product Name:**

3M™ 661XU Diamond Lapping Film Disc - 5 inch 0.5µm (micron)

**Manufacturer Part Number:**

D05-661XU-503N

► Click here for more details on the 3M™ 661XU Diamond Lapping Film Disc - 5 inch 0.5µm (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 ( $\pm 0.05$ )  
Ultimate tensile strength - 26,500 psi (typical)

**Mineral Size  
Grading Chart**

Micron Grade (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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23 Centre Street • New Bedford, MA 02740 USA

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



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<b>Bonding Resins</b>	Medium resin hardness
<b>Storage and Shelf Life</b>	<p>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.)</p>
<b>Number of Uses</b>	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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