

**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 (± 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.

focenter.com • 508-992-6464 | (800) 473-4237 • sales@focenter.com

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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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