

**Manufacturer:**

3M™

**Product Name:**

3M™ 491X Silicon Carbide Flock Pile Lapping Film Disc - 5 inch 3µm (micron)

**Manufacturer Part Number:**

SC3-491X-503N

▶ [Click here for more details on the 3M™ 491X Silicon Carbide Flock Pile Lapping Film Disc - 5 inch 3µm \(micron\)](#)



Technical Data | November 2023

## 3M™ Polishing Films Series 291X, 298X, 491X, 498X, 591X and 598X

**Product Description**

3M™ Polishing Films Series 291X, 298X, 491X, 498X, 591X and 598X are comprised of micron graded mineral that has been coated onto a fibrous polyester film backing. These films break down into a slurry during use with water for polishing MT style, multi-fiber ferrules. These films are available as plain backing or with pressure sensitive adhesive (PSA) backing.

**Applications**

MT style, multi-fiber optic connector optic connector polishing and wafer edge cleaning.

**Key Features**

- Enables better control of fiber protrusion
- Can help improve process throughput
- Precision construction results in fewer rejects
- Can help reduce slurry mess and contamination on fixtures and machines
- Can help reduce equipment maintenance costs

**Product Construction/Material Description**

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

Product ID (plain back)	Product ID (PSA back)	Mineral	Micron Grade (nominal)	Color
291X	298X	Aluminum Oxide	0.5	Pink
			1.0	Light Green
491X	498X	Silicon Carbide	3.0	Gray
591X	598X	Cerium Oxide	0.5	Light Orange

**Converted Forms**

- Sheets, discs and rolls.
- Maximum width 22 inches.

**Backing**

- Fibrous film

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

[focenter.com](https://focenter.com) • 508-992-6464 | (800) 473-4237 • [sales@focenter.com](mailto:sales@focenter.com)

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Product specifications and data are subject to change without notice. FOC last update 1/8/2026.

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**3M™ Polishing Films 291X, 298X, 491X, 498X, 591X and 598X****Storage and Shelf Life**

The shelf life of 3M™ Polishing Films 291X, 491X and 591X is 5 years from the date of manufacture when stored in the original packaging materials and stored at 10°C - 30° C (50°F - 86°F) and 30-60% relative humidity.

The shelf life of 3M™ Polishing Films 298X, 498X and 598X is 24 months from the date of manufacture when stored in the original packaging materials and stored at 10°C - 30° C (50°F - 86°F) and 30-60% relative humidity.

**Certificate of Analysis (COA)**

The 3M Certificate of Analysis (COA) for this product is established when the product is manufactured and deemed commercially available from 3M. The COA contains references to the 3M specifications, test method names, and test results for the product's performance attributes that the product will be supplied against.

**Safety Data Sheet:** Consult Safety Data Sheet before use.

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

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