

Polishing Film

Fibermart Lapping film / Polishing film is coated with precisely graded minerals (such as diamond, aluminum oxide, silicon carbide, silicon oxide, cerium oxide and so on) on the high strength polyester backing to provide a uniform, consistent finish. With or without PSA (Pressure Sensitive Adhesive) backing, and available in sheets, discs and rolls for meeting the use on any type of polishing equipment. These films are widely used in the polishing of fiber optic connectors, roller, hard disk and metal parts etc.



Specification

Abrasive Grit Size	Diamond (D)	Silicon Carbide (SC)	Aluminum Oxide (AO)	Silicon Oxide (SO)	Cerium Oxide (CO)
80µm #180	●				
60µm #240	●				
45µm #360	●				
40µm #400	●		●		
30µm #600	●	●	●		
20µm #800			●		
16µm #1000	●	●	●		
15µm #1200	●	●	●		
12µm #1500			●		
9µm #2000	●	●	●		
6µm #2500	●				
5µm #3000		●	●		
3µm #4000	●	●	●		
2µm #6000	●		●		
1µm #8000	●	●	●		
0.5µm #10000	●		●		
0.3µm #15000			●		●
0.01µm				●	
Standard Size	Round: Φ70mm, Φ110mm, Φ127mm (5in), Φ203mm (8in) Rectangle: 114mm*114mm, 152mm*152mm (6in*6in), 228mm*280mm (9in*11in)				

Remark: Customizations are available upon requests.

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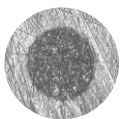
Applications

Product series	Application and explanation
D (Diamond)	Lapping for fiber optic connector, fiber array and glass pig tail (angle removal, rough grinding, medium polishing and fine polishing).
	Polishing for magnetic heads and hard disks.
	Lapping and polishing for optical glasses, optical crystal and LED.
	Lapping and polishing for semiconductor wafer (gallium arsenide, indium phosphide etc.)
	Edge polishing for silicon wafer.
SC (Silicon Carbide)	Epoxy and glass removal.
	Lapping and polishing for plastic ferrules.
	Fine finishing and polishing for magnetic heads.
AO (Aluminum Oxide)	Polishing for fiber optic connector.
	Polishing for silicon wafer used in solar cells.
	Polishing for hard disks.
	Polishing for ITO.
SO (Silicon Oxide)	Lapping and polishing for optical crystal.
	The final super-precise polishing of fiber optic connector.
CO (Cerium Oxide)	The final polishing for fiber optic connectors.
	Polishing for optical devices.

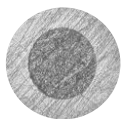
◆ Fiber Optic Connector Polishing



Recommended polishing process: D30, D9, D1 and final polishing.
Below is good end-face pictures in 400 times magnification for each polishing step:



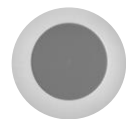
D30 (Diamond 30µm)



D9 (Diamond 9µm)



D1 (Diamond 1µm)



Final Polishing Film

◆ MTP/MPO connector



◆ Hard disk



◆ Hard alloy



◆ Metallography polishing



Features

- ◆ Superior finish surface.
- ◆ Consistent polishing performance.
- ◆ Long life and highyield.
- ◆ Applicable to both dry and wet polishing.