



## Prostal Limited.

1F., No.40, Aly. 22, Ln. 143, Ruiping Rd., Yangmei Disty, Taoyuan City 32658, Taiwan

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Vat number: 24849130



## Polishing film

### *Product Description*

Our Polishing film is manufactured with the most advanced super precise coating technique in the field, comprised: Mixing the precisely graded abrasive particles (such as diamond, aluminum oxide, silicon carbide, silicon oxide, cerium oxide and so on) with the advanced polymer material to form a slurry; Uniformly coating the slurry on the high strength film backing.

We are always devoted to develop and apply a full range of new polishing products which are used in fields such as fiber optical connectors, computer, semiconductor, LCD, and automobile. We are committed to provide high quality precision polishing products. Besides, we also offer superior customer services on new product development, application research and technical support and so on.

### *Features:*

Apply specified mixing technique to ensure abrasive minerals uniformly coated on film

- Bond with high strength epoxy to provide long durability and exhibit a long life on film use
- High quality and excellent consistency
- High cutting rate as featured in solid polishing material such as sanding wheel, also reaches high polishing rate as using polishing slurry
- Good strength reaches good arc polishing effect
- Can be used for dry Polish, also for polishing used water or oil



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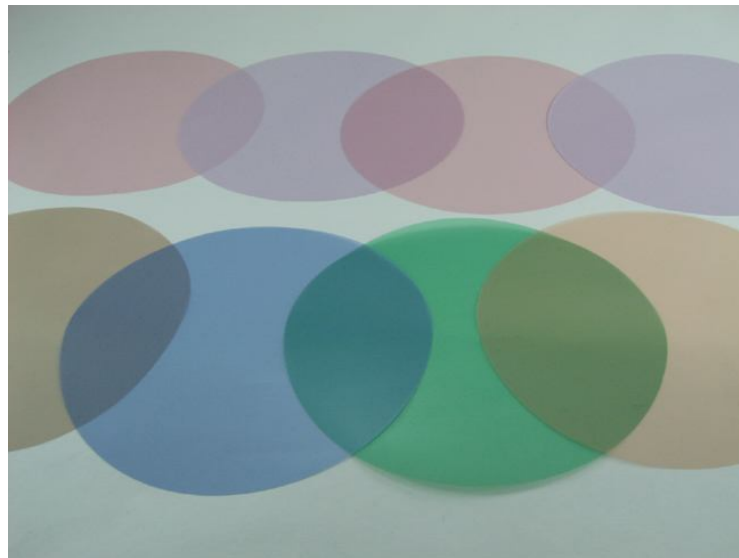
### *Specification and Type:*

#### *Material of coating:*

Diamond (D), Silicon Carbide (S), Aluminum Oxide (A), Silicon Oxide (O), Cerium Oxide (E)

Note: particle size:

- For diamond type, there are following types available: 0.2um, 0.5um, 1um, 3um, 6um, 9um, 15um, and 30um
- For silicon carbide type, there are following types available: 1um, 2um, 3um, 5um, 9um, 15um, and 30um
- For silicon oxide type, there are following types available: 0.02um
- For Aluminum Oxide type, there are following types available: 0.3um, 0.5um, 1um, 2um, 3um, 5um, 9um, 12um, 15um, 16um, 20um, and 30um
- For Cerium Oxide type, there are following types available: 0.3um and 0.5um



#### *Size of the sandpaper:*

Round film (diameter):  $\Phi 70\text{mm}$ ,  $\Phi 110\text{mm}$ ,  $\Phi 127\text{mm}$ (5inch),  $\Phi 203\text{mm}$ (8inch)

Quadrangle film: 114mm\*114mm, 152mm\*152mm, 228mm\*228mm

Note

1. Cerium Oxide CO is mainly used in film with small particle size for precise polishing;
2. For round type, 127mm diameter is our standard one.



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### *Application:*

Fiber optical connectors, couplers, attenuators

Ceramic & plastic ferrules, pigtailed

Optical lens, optical crystal, Sapphires, optical glasses, LED, LCD

Magnetic heads, hard discs

Semiconductor wafer (gallium arsenide, indium phosphide etc. )

### *Suggested Process:*

Taking fiber optical connector as example, instructions step by step are as below:

Prepare polishing film: Prepare the proper polishing film depending on polishing machine type, optical connector type and size. Polishing film Silicon carbide 30um type is normally used for resin remove, diamond 9um for coarse Polish, diamond 3um for medium Polish, diamond 1um for fine Polish and silicon oxide 0.02um for final Polish.

1<sup>st</sup> step: Clean rubber back-up pad: Clean rubber back-up pad or glass back-up pad thoroughly to ensure polishing film backing has the better contact with back-up pad. Spray pad with appropriate amount de-ionized or distilled water, make sure the water tension hold the film evenly and does not move when Polish.

2<sup>nd</sup> step: Clean polishing film: Place film on polishing surface, spray film with de-ionized or distilled water, wipe surface with a clean tissue. The goal is to remove the air bubbles, smooth out the film and clean the surface of the film, this can improve polishing result and prolong film durability.

3<sup>rd</sup> step: Place Polish film on polishing plate and secure the loaded polishing jig into place: Load and take out the jig carefully and avoid damaging jig and scratching polishing film surface.

4<sup>th</sup> step: Start polishing: Start polishing after adjusting desired time and pressure setting. Clean completely after each step. All types of Our polishing films can be used repeatedly.

Customer can follow the steps describe as above in general. However, depending on users particular condition and unique quality requirements, the polishing films and polishing steps used in polishi process could be vary.

### *Important Note:*

1. Store in cool and dry place
2. Keep away from organic solvents.



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## Ordering Information:

### PFMC**T**XXX-NNNN

**PF:** polish film

**MC:** material of coating

D: diamond

S: Silicon Carbide

A: Aluminum Oxide

O: Silicon Oxide

E: Cerium Oxide

**T:** type of sandpaper

R: round type

Q: quadrate type

**XXX:** size of sandpaper (diameter of round type sandpaper, or width of quadrate type sandpaper, unit: mm).

**NNNN:** particle size. For size bigger than 1um, it will show as below, for example:

0006: 6um

0010: 10um

0030: 30um

For size smaller than 1um, it will show as below, for example:

00D5: 0.5um

00D1: 0.1um

0D02: 0.02um

