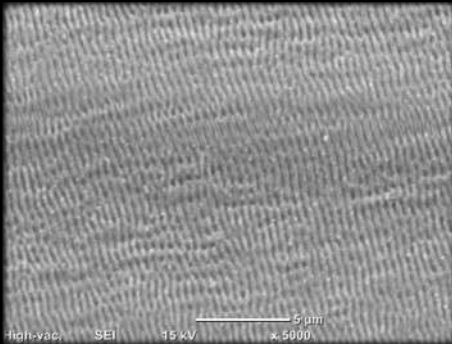


Nano Periodic Structure Processing (LIPSS Processing)

*LIPSS : Laser Induced Periodic Surface Structure

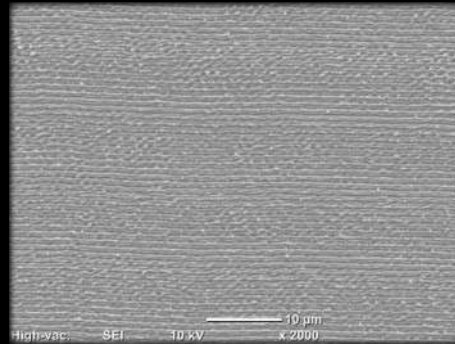
- Feature1 Apply a nanoscale periodic structure with ultra-short pulse laser induced plasma
- Feature2 Manifest structural color with the interference of light from a hard structure hologram
- Feature3 Select the pulse width and wavelength according to the material

Appearance of the Processed Part



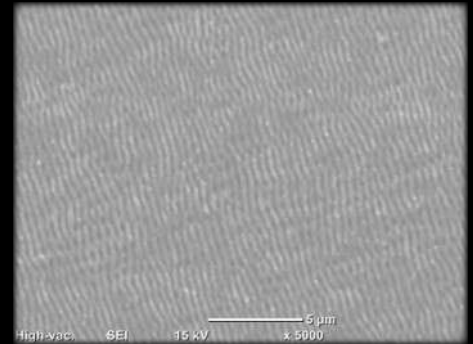
Material : SUS

Irradiation laser wavelength: 515 nm



Material : SUS

Irradiation laser wavelength: 1030 nm



Material : SKD

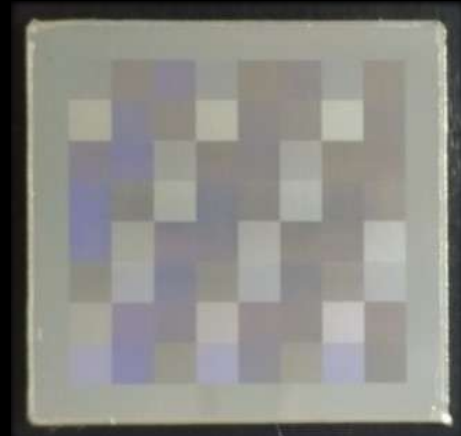
Irradiation laser wavelength: 515 nm

Processing Examples

Anisotropic Structural Color Design Processing



Anisotropic Structural Color Processing
(Mosaic Processing)



Usage Examples

- Apply biomimetic shapes
- Control wettability and releasability
- Improve biocompatibility
- Transfer and apply decoration to the molding die