

Fluoresresin coating material CYTOP™ in bio-chip applications

CYTOP

Transparency

Repellency

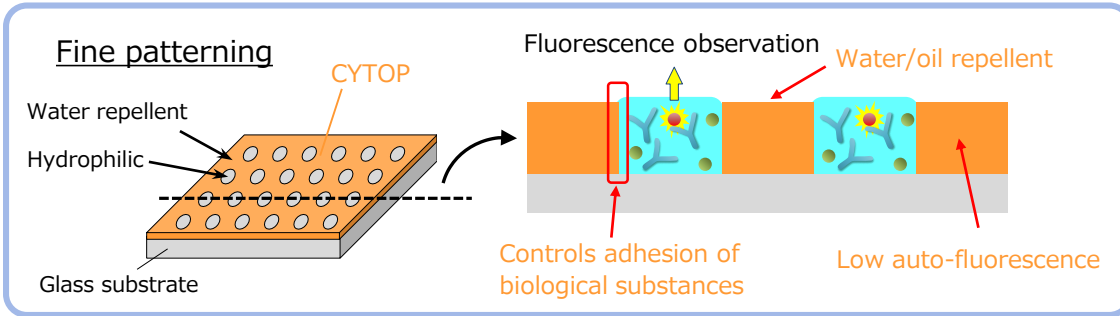
Water proof

Chemical
resistance

Electric
insulation

Low
refractive index

Application examples



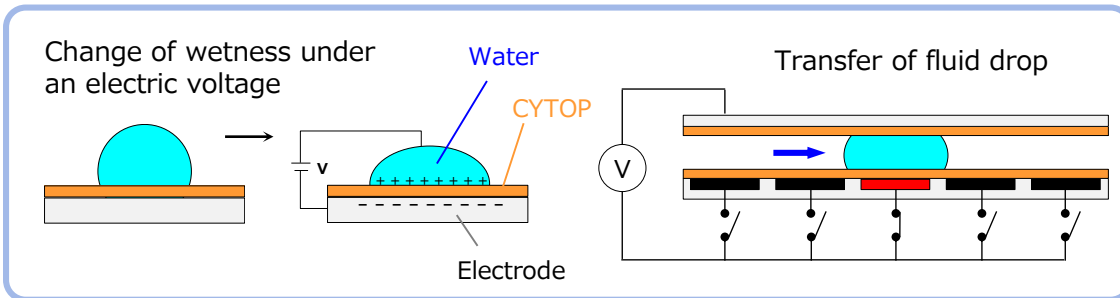
Characteristics of CYTOP™

Contact angle It shows high water/oil repellency.

	Water	<i>n</i> -hexadecane
Glass substrate	44°	21°
CYTOP coating glass	112°	53°

Formation of hydrophilic and hydrophobic patterns in detection element

By forming the fluoresresin coating CYTOP™ on a glass surface, it is possible to produce fine hydrophilic/hydrophobic patterns. The fluorescence of micro-water drops in a hydrophilic section can be easily measured.



Control of micro-fluid drop

The wetting property of liquid can be changed by applying an electric voltage to a drop on CYTOP™. Using this electro-wetting technology, it is possible to alter the position of a liquid drop with electricity.

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