

Fluorescence Intensity sensor



Application

Oil in waste water (ppm level)
Surfactant volume in liquid
Film of Oil on steel sheet
Paints volume (Liquid, Surface, etc)
Hardness evaluation (UV cure process) (Patent)

Feature

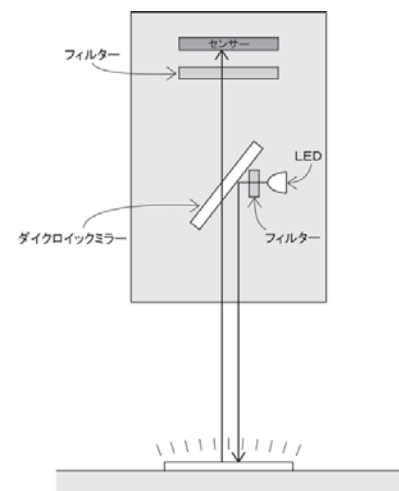
Non contact/non destruction measurement
Without touching sample, measurement is feasible.
It can measure Glass or film inside UV cure resin hardness.

Real time measurement
0.1sec fast measurement. In-line inspection. Waste water control.
Observation UV resin hardening changing over time during UV irradiation.

Under indoor light ambient
Stable measurement is feasible under Indoor light or UV light ambient condition

Principal

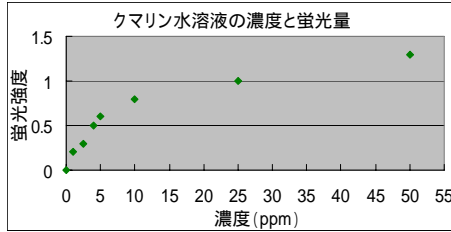
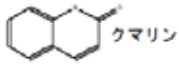
Fluorescence light is created when molecule is from excited state to ground state.
This instrument emits UV light (wave length 365nm) as excite light and detect Fluorescence light from sample (wave length 400 - -600nm)
Most UV cure resin case, in proportion to resin hardness is harder, fluorescence light energy is amplify.



Example

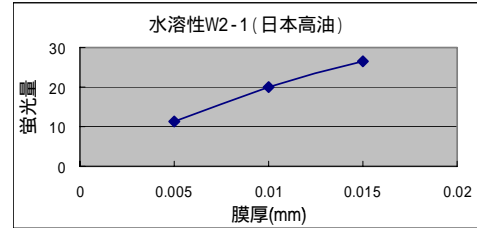
Fluorescence material in water

Density measurement of scattered fluorescence material in water (ppm)



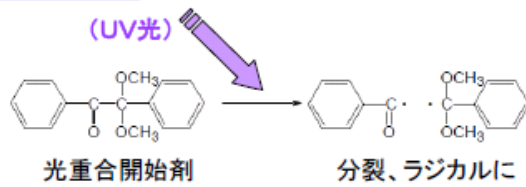
Oil film thickness

Thickness measurement of film of Oil on steel sheet thickness (um)

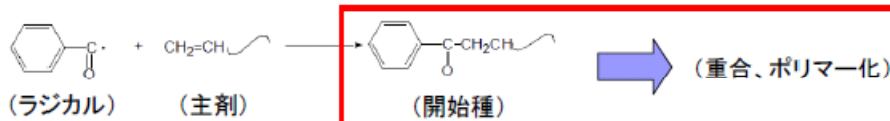


Hardness measurement UV resin hardening

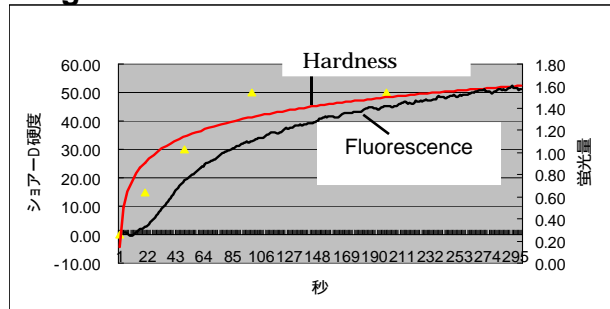
Radical



Combine adhesive



蛍光発光物質



Products line up

Product name	Version	Price
OL301	Standard type (excitation wavelength 365nm)	
OL201	High sensitivity (excitation wavelength 365nm)	
OL251	High sensitivity&High power (excitation wavelength 365nm)	
OL202	High sensitivity (Spot size 0.5) (excitation wavelength 365nm)	
OL211	High sensitivity (excitation wavelength 280nm)	
OL221	High sensitivity (excitation wavelength 310nm)	
AD Interface	AD converter	
Software	P C Simple report function (For EXCEL)	