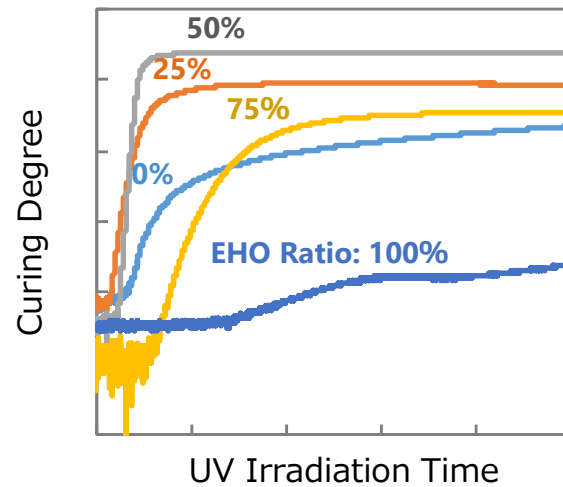
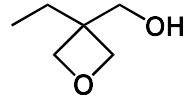


Improvement of Reactivity in UV Curing Epoxy **UBE**

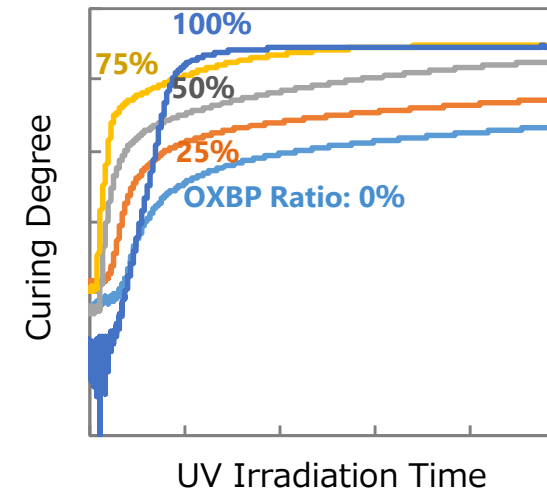
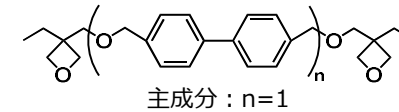
Reactivity can be improved in UV curing epoxy resin by addition of oxetanes.

It is expected to shorten the cycle time and improve the properties by improving the degree of cure.

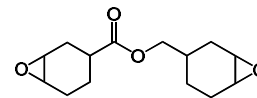
EHO and Alicyclic Epoxy



OXBP and Alicyclic Epoxy



Base Resin : Alicyclic Epoxy
Photo Acid Generator : CPI-100P(San-Apro Ltd.)
Curing Conditions : High Pressure Mercury Lamp



The contents in this material are subject to be changed without notice.
The values are not guaranteed, and we are not legally responsible for the information.

《 Unauthorized duplication, reprint prohibited 》 All Right Reserved, Copyright c2022 UBE Industries, Ltd.

•Ver.: U2212-1 2022年12月

Improvement of Properties in UV Curing Epoxy **UBE**

UV cationic curing resin has low reactivity and the properties of the cured resin can be low.
The addition of oxetane is expected to improve reactivity and properties in UV curing epoxy resin.

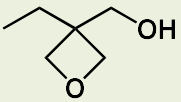
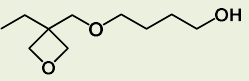
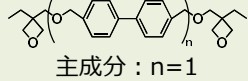
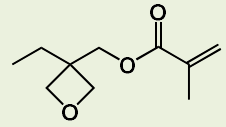
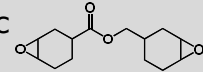
Resin Composition	Oxetane	0%	 EHO 50%	 HBOX 50%	 主成分：n=1 OXBP 50%	 OXMA 50%	
		Alicyclic Epoxy 	100%	50%	50%	50%	50%
		Viscosity mPa·s	221	38	49	617	17
Physical Properties of Cured Resin	Gel Fraction	75%	~100%	~100%	~100%	~100%	
	Modulus	1.3 GPa	2.8 GPa	2.0 GPa	2.5 GPa	3.2 GPa	
	5% Weight Loss Temperature	227 °C	270 °C	292 °C	311 °C	274 °C	
	WVTR g/m ² ·Day*	74	12	31	17	25	
	Tg	72 °C	77 °C	61 °C	92 °C	95 °C	
	Relative Permittivity (1MHz)	3.46	3.48	3.66	3.50	3.64	
	Dielectric Loss Tangent(1MHz)	0.0366	0.0488	0.0334	0.0268	0.0525	

Photo Acid Generator : CPI-100P(San-Apro Ltd.)
Curing Conditions : High Pressure Mercury Lamp 16,000mJ/cm²
※Conditions : 40 °C、90%RH

The contents in this material are subject to be changed without notice.
The values are not guaranteed, and we are not legally responsible for the information.
《 Unauthorized duplication, reprint prohibited 》 All Right Reserved, Copyright c2022 UBE Industries, Ltd.