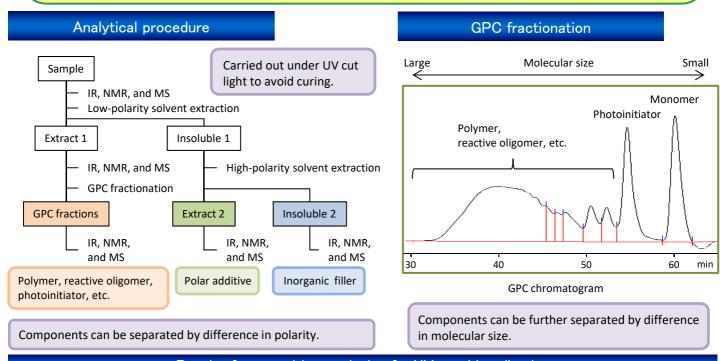
## Composition analysis of UV curable adhesive

Industrial materials is generally a mixture composed of multiple components. Although it is important to know chemical structure of the components for understanding material characteristics, it is not that simple to qualify the components because there are wide variety of chemical compounds with chemical structure, molecular weight, polarity, etc. in organic materials. We can clarify the composition of such a UV curable adhesive by high level separation techniques and appropriate analytical methods to determine unknown chemicals in details.



## Result of composition analysis of a UV curable adhesive

Category	Compound		Content ratio
Reactive oligomer	Urethane acrylate composed of following compon 1.) Poly(hexamethylene carbonate) diol  2.) Isophorone diisocyanate  3.) 2-Hydroxyethyl acrylate	ents:	61 mass%
Monomer	Pentaerythritol tetraacrylate	(CH <sub>2</sub> =CH C-OCH <sub>2</sub> -C O / <sub>4</sub>	5 mass%
	Hexamethylene diacrylate	CH <sub>2</sub> =CH	22 mass%
	<i>N,N</i> -Dimethylacrylamide	CH <sub>2</sub> =CH C-N(CH <sub>8</sub> ) <sub>2</sub> O	10 mass%
Photoinitiator	A certain phosphorus-containing photoinitiator		2 mass%

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