

Bio-based acrylate

- We focus on customers' carbon neutral activities.
- Some of bio-based acrylates are already mass production in our facilities.
- We have high Bio Renewable Carbon % monomers such as > 80%



Non-petrol based raw materials

Processing

Bio based acrylate

Products	structure	Base plant	BRC%※1	Radiocarbon dating※2
● NOAA (Linear C8)	<chem>C=CC(=O)OC</chem>	Palm	72%	71%
● LA (Linear C12)	<chem>C=CC(=O)OC</chem>		80%	79%
● STA (Linear C18)	<chem>C=CC(=O)OC</chem>		85%	85%
● IBXA (Isobornyl)	<chem>C=CC(=O)OC</chem>	Pine oil	76%	77%
● Viscoat# 150 (Tetrahydrofurfuryl)	<chem>C=CC(=O)OC</chem>	Corn cob	62%	62%

$$\text{※1 Bio Renewable Carbon (BRC\%)} = \frac{\text{Bio sourced Carbon}}{\text{Bio sourced Carbon} + \text{Fossil Carbon}} \times 100$$

※2 Radiocarbon dating (carbon 14) is able to certify bio-based content of our products by measuring the amount of carbon-14 remaining in the products.

