

# High fixed carbon grade PR-56451 (Novolac type)

## ● Characteristic

- ✓ High fixed carbon
- ✓ Heat curable with hexamine or epoxy groups
- ✓ Formaldehyde emission less.

## ● Resin property

Item	PR-56451
Ion	Anion
Free phenol %	<0.1
Free formaldehyde %	<b>N.D.</b>
Ash content %	0
Viscosity mPa·s, 25°C	3000
Gelation time Sec/150°C	No gelation 100*PR-56451H
Resin content %/135°C	48
pH -/25°C	8.5
Fixed carbon %/800°C	18

## ● Fix carbon ratio & storage stability

**Fix carbon ratio(%)** 135°C/1hr cured material

Grade	Fix carbon ratio(%)
PR-56449	37.5
PR-56450	37.0
PR-X23115	24.5
<b>PR-56451</b>	<b>37.5</b>
<b>PR-56451H</b>	<b>44.9</b>
PR-X23099	32.7

**Storage stability** Temp.: 35°C

