## Acid soluble, solvent soluble grade PR-X23099

#### Characteristic

- ✓ Cationic type applicable in acid solution
- ✓ High solubility in various solvents
- ✓ Low viscosity and easy to handle

### Resin property

Item	PR-X23099		
Ion	Cation		
Free phenol %	< 0.1		
Free formaldehyde %	<0.1		
Ash content %	0		
Viscosity mPa∙s,25℃	160		
Gelation time Sec/165℃	320		
Resin content %/135℃	49		
pH -/25℃	5.4		
Fixed carbon %/800℃	16		

### Viscosity & Solvent Solubility

<u>Visc</u>	<u>osity</u> Grade	<b>Viscosity</b> mPas/25℃
	PR-56449	770
	PR-X23115	400
	PR-56451	3000
	PR-X23099	160

#### **Solubility**

Solvent	PR-X23099		
Distilled water	0		
7.5% H <sub>3</sub> PO <sub>4</sub> aqueous solution	0		
Ethanol	©		
Acetone	0		
Propyleneglycol monomethylether	©		

○:Over 5 times, ○:Over 1 times,

# **Solubility**

Grade	PR- 56367	PR- 56449	PR- 56451H	PR- 56451	PR- X23099
Distilled water	0	0	0	0	0
5% NaOH aqueous solution	©	©	©	©	×
7.5% H <sub>3</sub> PO <sub>4</sub> aqueous solution	×	×	×	×	0
Methanol	0	×	×	×	0
Ethanol	0	×	×	×	0
IPA	×	×	×	×	0
Butanol	×	×	×	×	0
Acetone	0	0	0	Ο	0
MEK	0	×	×	×	×
Propyleneglycol monomethylether	0	0	Ο	0	©

 $\odot$ : Over 5 times,  $\bigcirc$ : Over 1 time,  $\times$ : Insoluble