

42

Application Memo

Acid Number of Resin Powder

Industry	Plastics & rubber
Instrument	Automatic potentiometric titrator
Measurement method	Acid-base titration
Standards	

1. Overview

The acid number of resin powder is measured by titration with 0.1mol/L potassium hydroxide + ethanol after the sample is dissolved in mixture of xylene and butanol (or dimethylformamide). The acid number is calculated from the titration volume of potassium hydroxide + ethanol by potentiometry up to the endpoint.

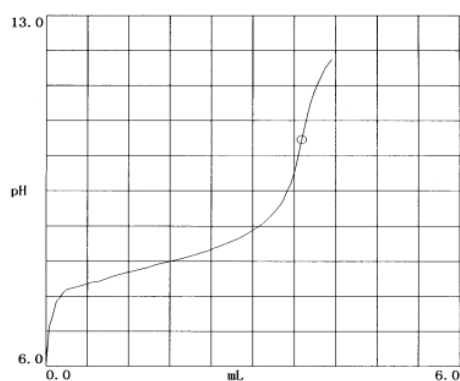
2. Apparatus

Main unit	Automatic potentiometric titrator (preamplifier STD)
Electrode	pH glass electrode Double junction reference electrode Temperature compensation electrode

3. Reagents

Titrant	0.1mol/L potassium hydroxide + ethanol
Solvent	Xylene + butanol (or dimethylformamide)

4. Example



-Measurement results-			
	Sample (g)	Titer (mL)	Acid number (mg/g)
1	2.5252	3.7107	8.2452
2	2.5188	3.7163	8.2786
3	2.5261	3.7110	8.2429
Average			8.2556
SD			0.0200
RSD(%)			0.242

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