

## Application Memo

# Acid Number of Resin

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

## 1. Overview

Dissolve sample in mixture of xylene and dimethylformamide (1+1), and titrate with 0.1mol/L potassium hydroxide + ethanol by potentiometry up to the endpoint.  
The acid number is calculated from the titration volume of potassium hydroxide.

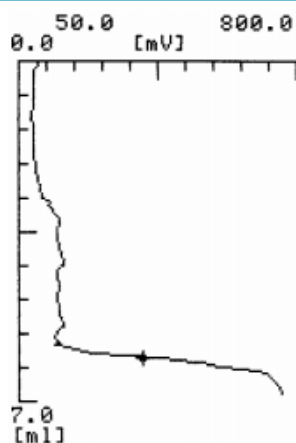
## 2. Apparatus

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 + dimethylformamide (1+1)

## 4. Example



-Titration curve-

-Measurement results-

	Sample (g)	Titer (mL)	Acid number (mg/g)
1	0.0505	6.1253	680.6
2	0.0510	6.2916	692.2
3	0.0511	6.2250	683.5
Average			685.4
SD			6.0
RSD(%)			0.88

Please feel free to contact us for any further information.

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