

Test Method for EC

1. Identification:

Put 5g EC samples dissolve into the mixing solution of alcohol & methylbenzene[(alcohol:methylbenzene=20:80)---this is weight ratio],the solution after dissolving is clear,stable and presenting slightly yellow color.

2. Ethoxy content calculation

Computational formula is as follows:

$$\text{Total ethoxy content\%} = \{[(V1-V2)*C*0.00751]/m\} * 100$$

Thereinto,V1 is the volume that sample's consumption of sodium hyposulfite standard solution,ml;

V2 is the volume that blank experiment's consumption of sodium hyposulfite standard solution,ml;

C is the concentration of sodium hyposulfite standard solution,mol/l;

M is the weight of dry samples,g;0.0751 is the weight of ethoxy(expressed in "g") equal to 1 ml 0.1mol/l sodium hyposulfite.

(the permit error of parallel test not exceed 0.5%)

3. Viscosity testing:

(1).Instrument: NDJ-1 rotating viscosimeter,250ml glass bottle,magnetic stirring apparatus

(2).Reagent:methylbenzene,95% alcohol

KIMA CHEMICAL CO.LTD

Add:Zhangdian,Zibo, Shandong, P.R.China

Tel: +86-533-6281218

Email:sales@kimachemical.com

www.kimachemical.com



(3).Procedure:weighting up 10g samples precisely which drying for 1 hour in 100 ± 5 °C(precise to 0.01g),put it into 250ml white glass bottle,and then add into 190.0g mixing dissolvent(alcohol:methylbenzene=1:4),cover the stopper,stirred by magnetic stirring apparatus until samples completely dissolved.Under water solution of constant temperature(25 ± 0.1 °C) for 1 hour,then test its viscosity by rotating viscosimeter.