

KES

Analysis of Residual Vinyl
Chloride Monomer for
Poly Vinyl Chloride Resin

KES T – M038

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Contents

1. Scope of Application
2. Method



1. Scope of application

This standard shall specify analysis method of residual vinyl chloride monomer among poly vinyl chloride (PVC from now on) resin.

2. Method

2.1 Summary

This standard shall be applied to analysis method of a little residual vinyl chloride monomer among PVC.

2.2 Meaning

PVC resin includes no reaction or residual vinyl chloride monomer. There is about 1 ppm of vinyl chloride monomer (VCM from now on) among PVC in general condition

2.3 Explanation of abbreviation

- (1) VCM : Vinyl chloride monomer
- (2) PVC : Poly vinyl chloride
- (3) RVCM : Residual vinyl chloride monomer
- (4) DMAC : Dimethyl acetamide
- (5) THF : Tetra hydro furon

2.4 Equipment

- (1) Gas chromatography
- (2) Recorder : 0 ~ 1 mv Scale
- (3) Chemical balance : ± 0.0001 g
- (4) Soap film flow-meter
- (5) Stop watch
- (6) Column and a filling : Following things can be used
 - (a) The material that is a stainless steel of outer diameter 1/8 inch and length 1ft and that Poropak®s or Poropak®-QS is filled at 80 ~ 100 mesh.