Errata Notice

This document contains references to PSS or Polymer Standards Service. Please note that PSS is now Agilent. This document will be republished as an Agilent document in the future.



10085 - Column Application Note Characterization of Epoxy Resins

Epoxy resins are typically oligomeric compounds containing more than one epoxy function. Many Epoxy resins are prepared by the reaction of bisphenol A with epichlorhydrin. They are used for the preparation of duroplasts by polyaddition with polyfunctional amines (hardeners) or carbonic acids/anhydrides. Typically they are used in electronic industry for isolation, as coatings, glue for plastics or for sealings.

Experimental Setup

Mobile Phase: Tetrahydrofuran Stationary Phase: PSS SDV Flow rate [mL/min]: 1,00 Temperature [°C]: 25

Detection: Shodex-RI71

Calibration: ReadyCal-Kit Poly(styrene) low

Data processing: PSS WinGPC



narrow PDI

M 100 Da - 10 000 Da: 2 g/L M 10 000 Da - 1 000 000 Da: 1-2 g/L

M > 1 000 000 Da: 0.5 g/L or less

broad PDI (>1.5)

all molar masses: 3.0 - 5.0 g/L

Injection volume [µL]: 20

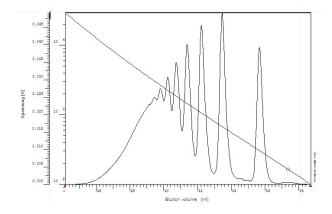


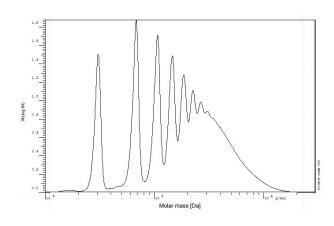
low molecular weights: P/N 201-0001 (set of 3) OR sda083003lis (1 linear)

medium molecular weights: - high molecular weights: - ultrahigh molecular weights: -

Elugram and Calibration separation on PSS SDV

Molar Mass Distribution separation on PSS SDV







PSS Polymer Standards Service GmbH In der Dalheimer Wiese 5 55120 Mainz | Germany Phone +49 6131 96239-0 Fax +49 6131 96239-11

Fax +49 6131 96239-11

E-Mail info@pss-polymer.com

Web www.pss-polymer.com

Polymer Standards Service-USA, Inc. 160 Old Farm Rd, Suite A Amherst | MA 01002 | USA
 Phone
 +1 413 835-0265

 Fax
 +1 413 835-0354

 E-Mail
 pssusa@pss-polymer.com

 Web
 www.pss-polymer.com

DE14644313

5994-6304EN July 1, 2023