Efficient Analysis of Condensation Resins
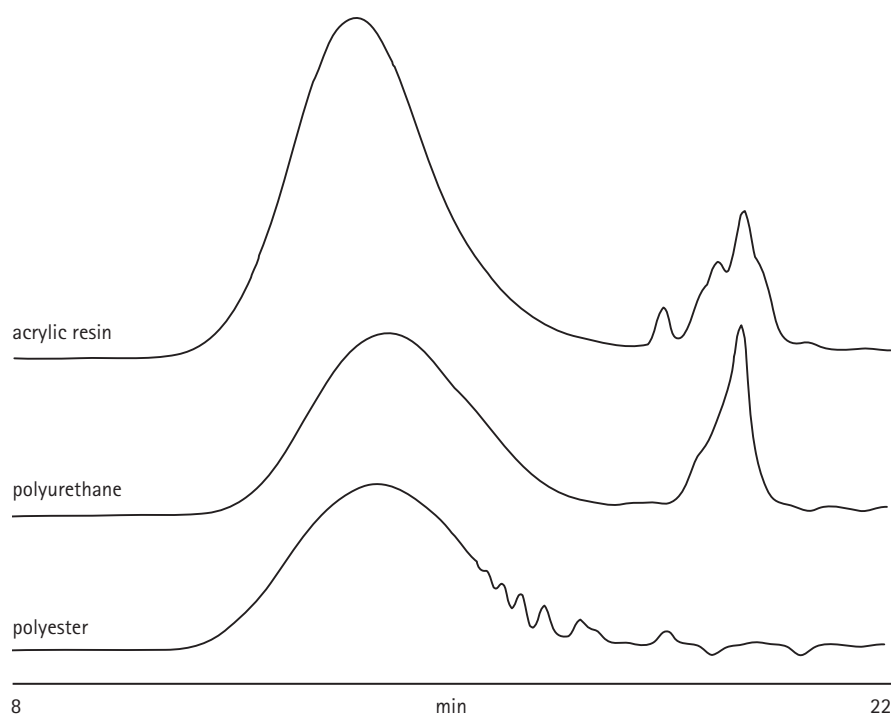## Agilent PLgel 5 µm MIXED-D Columns

Technical Overview

Introduction

The PLgel 5 µm MIXED-D column is specifically designed for the analysis of polymers, paints and resin systems where material above 400,000 MW is unlikely to be present. High pore volume, combined with the 5 µm efficiency, provides excellent resolution for low MW polymers and oligomers. Two, or even three, PLgel 5 µm MIXED-D columns are the perfect replacement for the popular $10^4/500$ Å or $10^4/10^3/500$ Å/100 Å column combinations.

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A variety of resins, produced by condensation polymerization, can be analyzed using three columns.

Column: 3 x PLgel 5 µm MIXED-D, 300 x 7.5 mm
            (part number PL1110-6504)
Eluent: THF
Flow Rate: 1.0 mL/min
Detection: RI

acrylic resin

polyurethane

polyester

8   min   22

Figure 1. Analysis of resins using PLgel 5 µm MIXED-D columns

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