Agilent PLgel 10 µm MIXED-B Columns

Effective Analysis of a Fluoropolymer

Technical Overview

Introduction

Agilent PLgel 10 µm MIXED-B columns are designed for high MW polymer analysis and demanding eluent conditions such as fluoropolymers in dimethyl formamide.

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The refractive index of fluoropolymers is lower than that of DMF. It is therefore necessary to reverse the electrical polarity of the RI detector signal in order to obtain a positive peak.

The PLgel 10 µm MIXED-B spans a wide range of molecular weights, up to 10 million, with a linear calibration curve. It is particularly useful for molecular weight distributions where slightly higher than average MWs are encountered. The 10 µm particle size provides good resolution with relatively low pressures for enhanced lifetimes in demanding conditions.

Conditions

Columns:	2 x PLgel 10 µm MIXED-B, 300 x 7.5 mm (part number PL1110-6100)
Eluent:	DMF (0.1% LiBr)
Flow Rate:	1.0 mL/min
Temperature:	70 °C
Detection:	RI

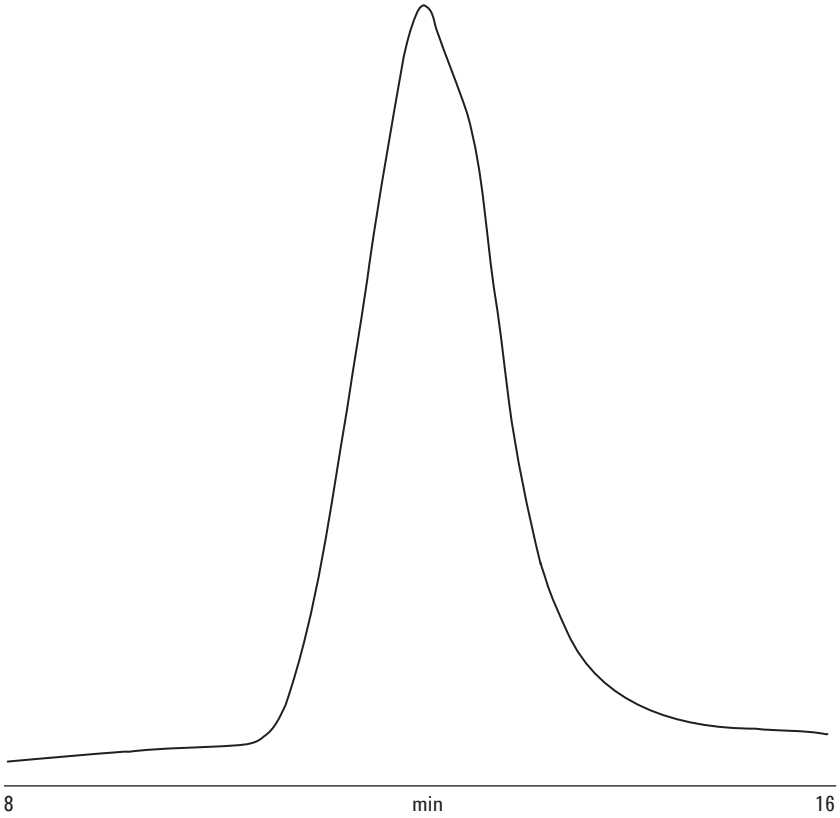

Figure 1. Analysis of a fluoropolymer using PLgel 10 µm MIXED-B columns

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