

Agilent PLgel 10 µm MIXED-B Columns

Routine Analysis of Oil Extended Butadiene Rubber

Technical Overview

Introduction

PLgel MIXED-B columns are ideal for routine analyses in tetrahydrofuran, as shown in the separation of butadiene rubber.



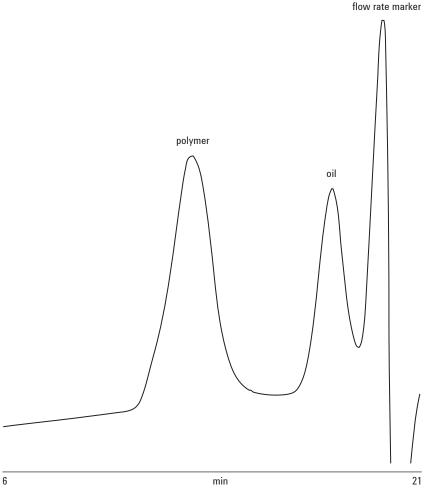
To ensure dissolution, sample of butadiene rubber were warmed to 50 °C and gently stirred for up to three hours. Filtering using 0.5 µm filters is recommended to remove any 'gel fractions' present. The PLgel 10 µm MIXED-B packing permits resolution of both the polymer and oil peaks.

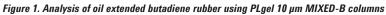
PLgel 10 μm MIXED-B columns are designed for high MW polymer analysis and demanding eluent conditions. The PLgel 10 μm MIXED-B spans a wide range of molecular weights, up to 10 million, with a linear calibration curve. It is particularly useful for molecular weight distributions where slightly higher 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: Eluent: Flow Rate:

Loading: Detection: 2 x PLgel 10 μm MIXED-B, 300 x 7.5 mm (part number PL1110-6100) THF 1.0 mL/min 0.2%, 100 μL RI





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