Agilent PLgel 10 µm MIXED-B Columns

Effective Analysis of Butyl Rubber with Hexane Solvent

Technical Overview

Introduction

Hexane is a good solvent for butyl rubber although it can be chromatographed using other solvents, such as THF. The solubility parameter of hexane is very low (7.3). However, it can be used successfully with PLgel columns, such as PLgel MIXED-B.

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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:	2 x PLgel 10 µm MIXED-B, 300 x 7.5 mm (part number PL1110-6100)
Eluent:	Hexane
Flow Rate:	1.0 mL/min
Detection:	RI

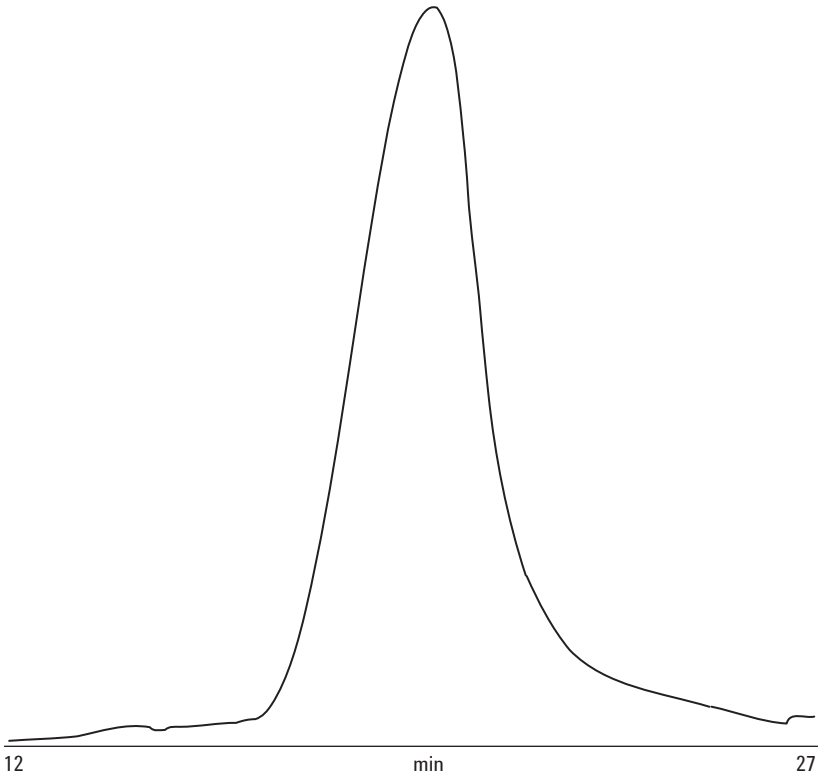

Figure 1. Analysis of butyl rubber using PLgel 10 µm MIXED-B columns

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