



# **Agilent PLgel 10 $\mu$ m MIXED-B Columns**

## **Straightforward Analysis of Elastomers**

### **Technical Overview**

#### **Introduction**

The extended operating range of the PLgel MIXED-B column makes it ideally suited to the analysis of a wide range of high molecular weight elastomers. Sample solutions are routinely filtered prior to injection to remove 'gel fractions' (insoluble material) common to most elastomers.

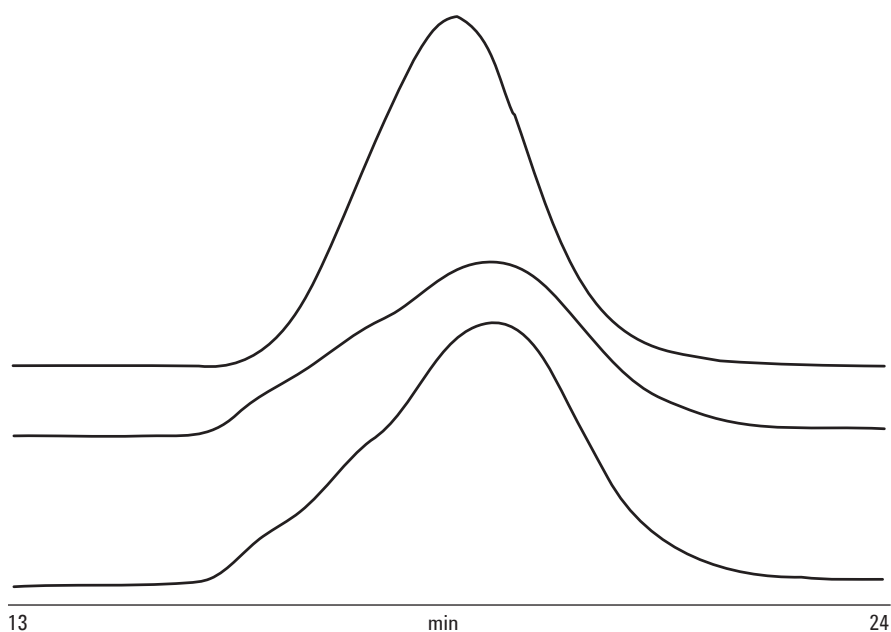


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PLgel MIXED-B columns are designed for high MW polymer analysis and demanding eluent conditions. The PLgel 10  $\mu$ m MIXED-B spans a wide range of molecular weights, up to 10 million, with a linear calibration curve. It is particularly useful for molecular weight distributions where slightly higher than average MWs are encountered. The 10  $\mu$ m particle size provides good resolution with relatively low pressures for enhanced lifetimes in demanding conditions.

### Conditions

Columns:	3 x PLgel 10 $\mu$ m MIXED-B, 300 x 7.5 mm (part number PL1110-6100)
Eluent:	THF
Flow Rate:	1.0 mL/min
Loading:	0.2% w/v, 100 $\mu$ L
Temperature:	50 °C
Detection:	Agilent PL-GPC 50 Plus Integrated GPC/SEC System



**Figure 1. Analysis of elastomers using PLgel 10  $\mu$ m MIXED-B columns**

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