Comparing Polycarbonate Samples with GPC
Agilent PLgel 5 µm MIXED-C Columns

Technical Overview

Introduction

PLgel 5 µm MIXED-C columns are designed for rapid polymer analysis. They are ideal for comparing batches of polycarbonate.

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With its linear calibration up to 2 million MW, PLgel 5 µm MIXED-C is the column of choice for highest resolution and accuracy in molecular weight distribution analyses. Rapid solvent change capability, excellent temperature stability and the high resolution of the PLgel 5 µm MIXED-C also provide the versatility essential for the modern R&D laboratory.

Conditions

Column:	PLgel 5 µm MIXED-C, 300 x 7.5 mm (part number PL1110-6500)
Eluent:	Chloroform
Flow Rate:	1.0 mL/min
Detection:	RI

	A	B
Mp	41,225	60,735
Mn	15,778	24,579
Mw	40,888	66,335
Mz	65,747	108,306
Mw/Mn	2,592	2,699

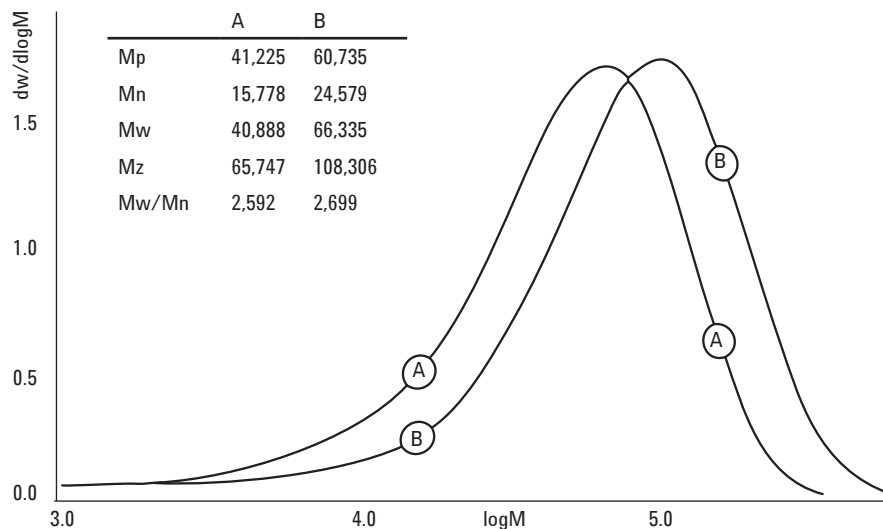*Figure 1. Differences in two batches of polycarbonate revealed by GPC with PLgel MIXED-C columns*
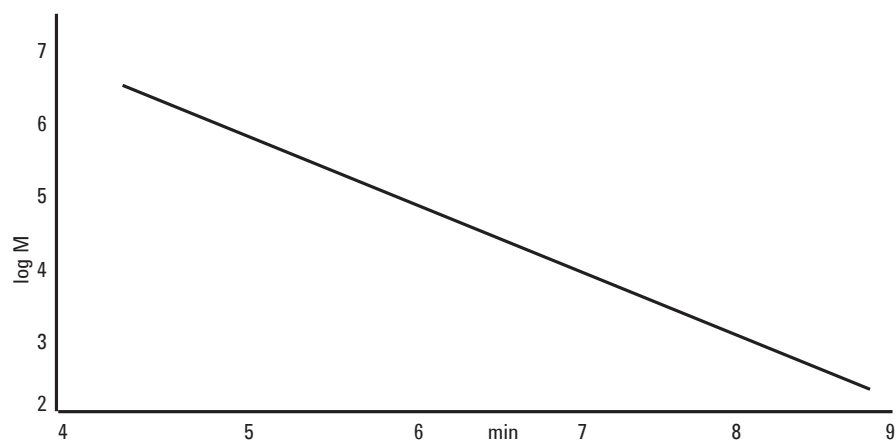
Figure 2. Polystyrene calibration curve

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