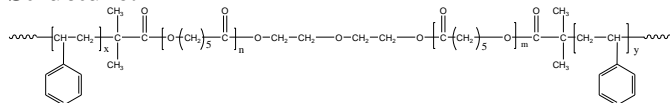


Sample Name: Poly(styrene –b - ε-caprolactone –b- styrene)

Sample #: P41773A-SCLS

Structure:

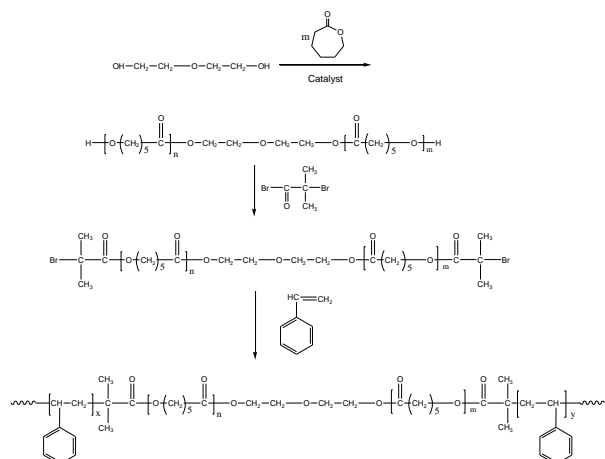


Composition:

Mn x 10 ³ PS-b-PCL-b-PS	PDI
1.5-b-8.0-b-1.5	1.25

Synthesis Procedure:

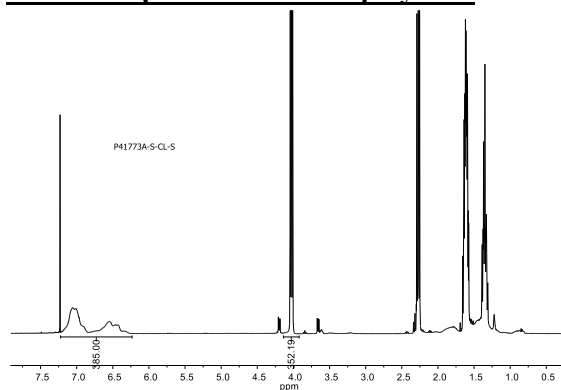
Poly(styrene –b - ε -caprolactone –b- styrene) is prepared by ring opening polymerization of ε-caprolactone and RAFT polymerization of styrene. The scheme of the reaction is illustrated below:



Characterization:

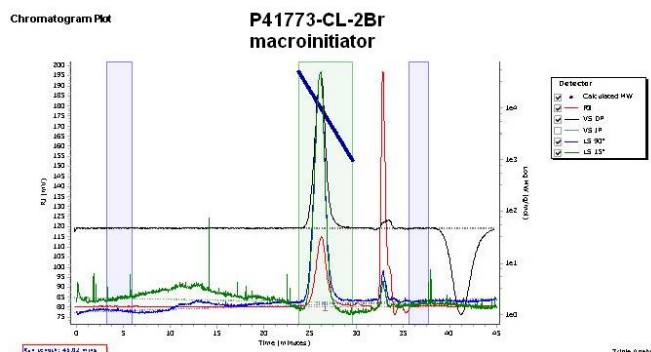
The product was characterized by size exclusion chromatography (SEC) and ¹H NMR.

¹H-NMR Spectrum of the copolymer:



SEC elugram of the Macroinitiator:

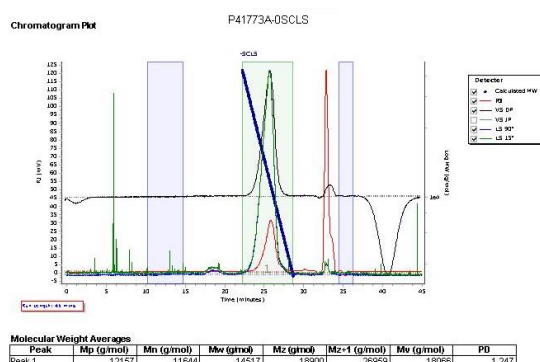
Agilent GPC/SEC Software



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PDI
Peak 1	9674	8082	10137	11983	14006	11265	1.254

SEC elugram of the Sample:

Agilent GPC/SEC Software



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PDI
Peak 1	12157	11644	14517	16900	26959	18066	1.247

Composition from HNMR