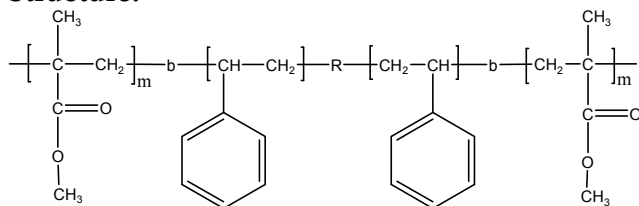


Sample Name:

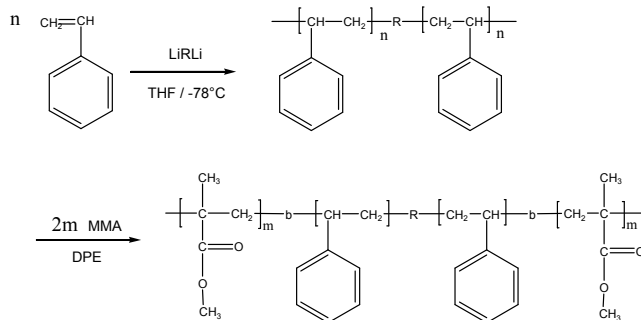
Poly(methyl methacrylate-b-styrene-b-methyl methacrylate)

Sample #: P1820-MMASMA**Structure:****Composition:**

Mn x 10 ³	PDI
230.0-b-162.0-b-230.0	1.20
T _g for MMA block (°C)	131
T _g for S block (°C)	100

Synthesis Procedure:

Poly(methyl methacrylate-b-styrene-b-methyl methacrylate) is prepared by living anionic polymerization with sequence addition of styrene followed by methyl methacrylate, using difunctional initiator. The scheme of the reaction is illustrated below:

**Characterization:**

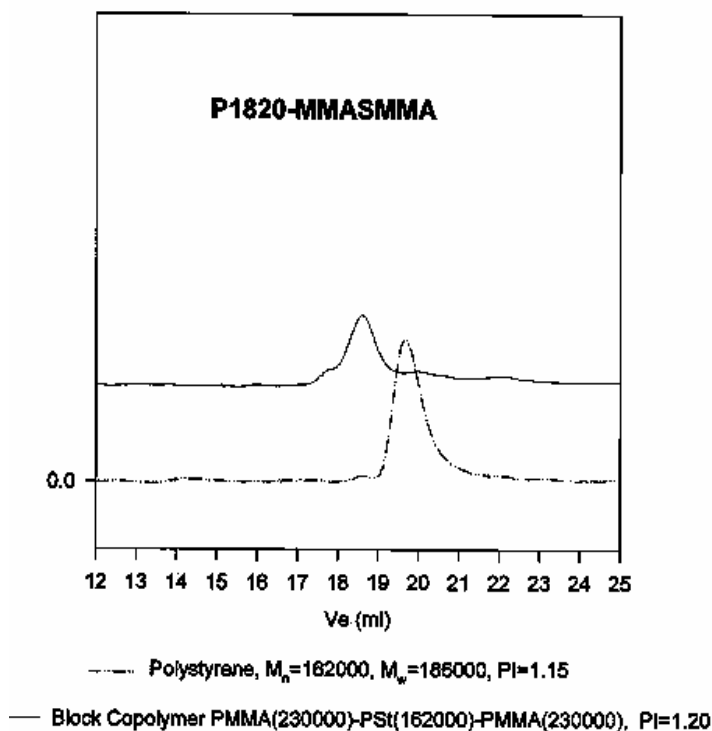
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

Thermal analysis:

Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

Solubility:

Polymer is soluble in THF, CHCl₃, dioxane and benzene

SEC of Sample:**DSC thermograms for the sample:**