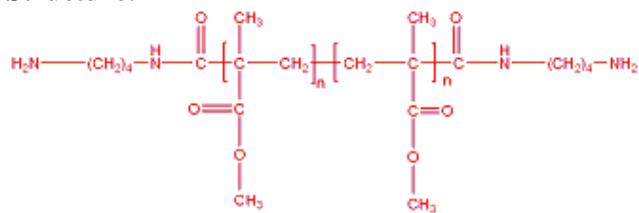


Sample Name:

α , ω -Diamino Terminated Poly (methyl methacrylate)

Sample #: P919-MMA2NH₂**Structure:****Composition:**

Mn x 10 ³	PDI
2.0	1.4
NH ₂ functionality	>90%

Synthesis Procedure:

Amino terminated polymethylmethacrylate is obtained by the chemical modification of the carboxylic acid terminated PMMA.

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 before the addition of the CO₂H function. Transesterification was verified by FT-IR to verify the disappearance of the t-butyl group.

Thermal analysis:

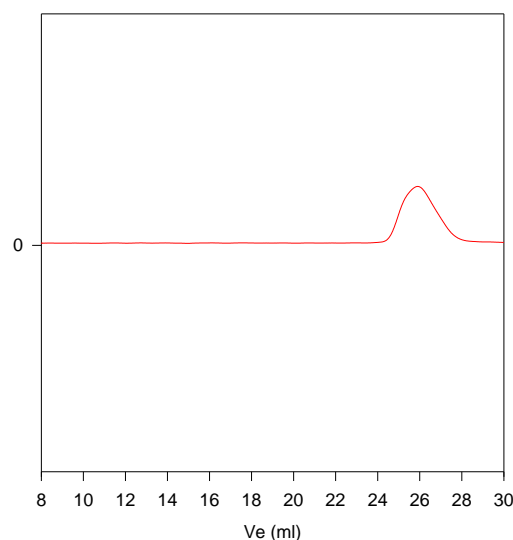
Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T_g) has been considered.

Solubility:

The polymer is soluble in CHCl₃, THF and dioxane.

SEC of Sample:

P919-MMA2NH₂



Size exclusion chromatography of Diamino Terminated poly methylmethacrylate before adding CO₂ and modification to NH₂ end groups.

Mn:2000, M_w=2800 PI=1.4, functionality>1.90