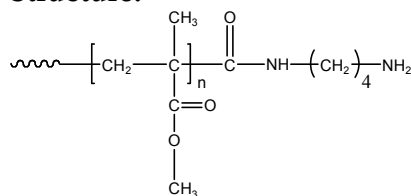


Sample Name:

Amino Terminated Poly(methyl methacrylate)
 – Syndiotactic rich (> 78 %)

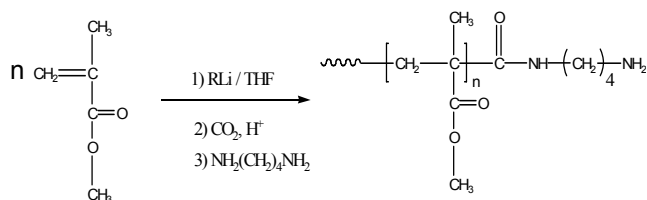
Sample #: P3820-MMANH₂

Structure:**Composition:**

Mn x 10 ³	PDI
31.0	1.13
NH ₂ functionality	>90%
T _g for the polymer	124°C

Synthesis Procedure:

Amino terminated polymethylmethacrylate is obtained by the chemical modification of the carboxylic acid terminated PMMA. The scheme of the polymerization reaction is illustrated below:

**Characterization:**

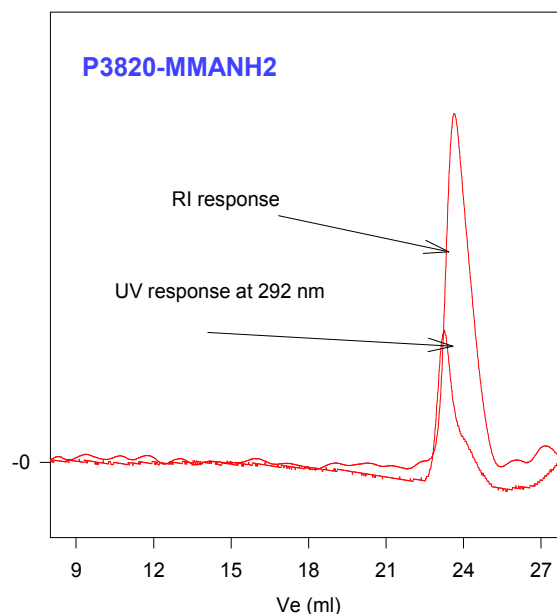
The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector before the addition of the CO₂H function. Transesterification was verified by FT-IR to verify the disappearance 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:

Size exclusion chromatography of Amino Terminated poly methylmethacrylate end capped with 1-naphthyl isocyanate:

Mn:31000, M_w=34500, PI=1.13, functionality>0.98

DSC thermogram for the sample: