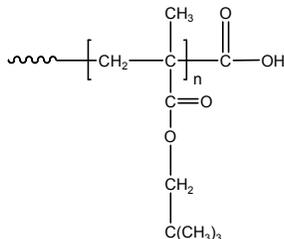


Sample Name:
Carboxy Terminated Poly(neopentyl methacrylate)

Sample #: P3646-NPMACOOH

Structure:

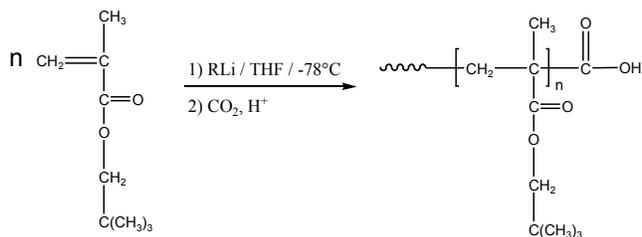


Composition:

$M_n \times 10^3$	PDI
21.7	1.05
Degree of functionality	>95%
T_g for the polymer	118°C

Synthesis Procedure:

Carboxy Terminated Poly(neopentyl methacrylate) was prepared by anionic living polymerization of neopentyl methacrylate in THF and termination of the polymerization with dried CO_2 . The scheme of the reaction is illustrated below:



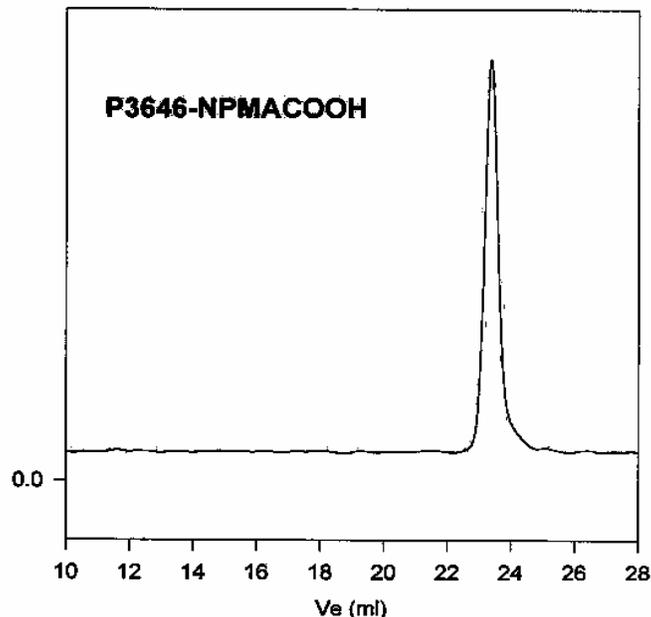
Characterization:

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 before the addition of the CO_2H function.

Solubility:

The polymer is soluble in CHCl_3 , THF and dioxane.

SEC of Sample:



Size exclusion chromatography of carboxy terminated poly(neopentyl methacrylate) (before termination with CO_2)

$M_n=21700$, $M_w=22800$, $PI=1.05$, functionality>0.98%

DSC thermogram for the sample:

