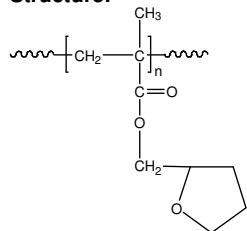


Sample Name:

**Poly(tetrahydrofurfuryl methacrylate)**

Sample #: **P3716-THFMMA**

Structure:

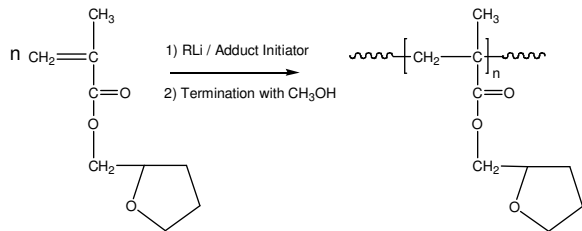


Composition:

$M_n \times 10^3$	PDI
160.0	1.60

Synthesis Procedure:

Poly(tetrahydrofurfuryl methacrylate) is obtained by living anionic polymerization of tetrahydrofurfuryl methacrylate. The reaction scheme used for the polymer synthesis is shown below:



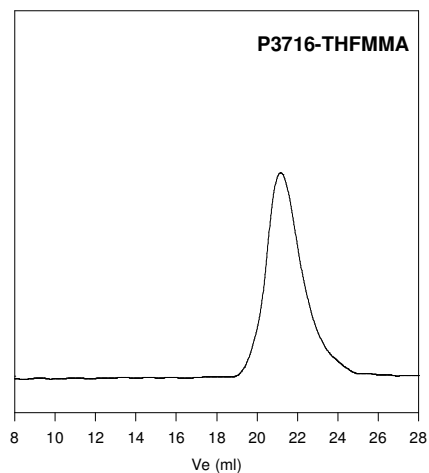
Characterization:

The molecular weight and polydispersity index (PDI) of Poly(tetrahydrofurfuryl methacrylate) are obtained by size exclusion chromatography.

Solubility:

Poly(tetrahydrofurfuryl methacrylate) is soluble in THF,  $\text{CHCl}_3$ , toluene and dioxane. The polymer precipitates from hexanes, methanol and ethanol.

SEC of Homopolymer:



Size exclusion chromatograph of Poly tetrahydrofurfuryl methyl methacrylate:

$M_n=160000$ ,  $M_w=258000$ ,  $PI=1.6$

$dn/dc$  in THF at 30 oC : 0.075 Radius of Gyration: 14.21 nm

Solution Viscosity in THF at 30 oC: 0.285 dl/g