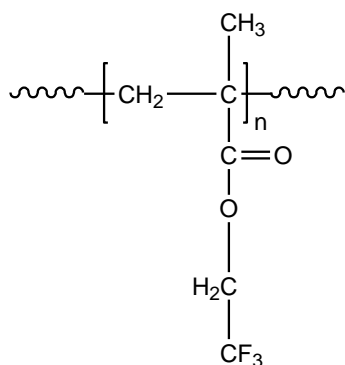


Sample Name:

Poly(2,2,2-trifluoroethyl methacrylate)

Sample #: **P5449B-MATRIF**

Structure:



Composition:

Mn × 10 ³	PDI
5.0	1.5
T _g (°C)	66

Synthesis Procedure:

Poly(trifluoro ethyl methacrylate) is obtained by living anionic or by GTP process.

Characterization:

The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple detectors from Viscotek Co.

Thermal Analysis:

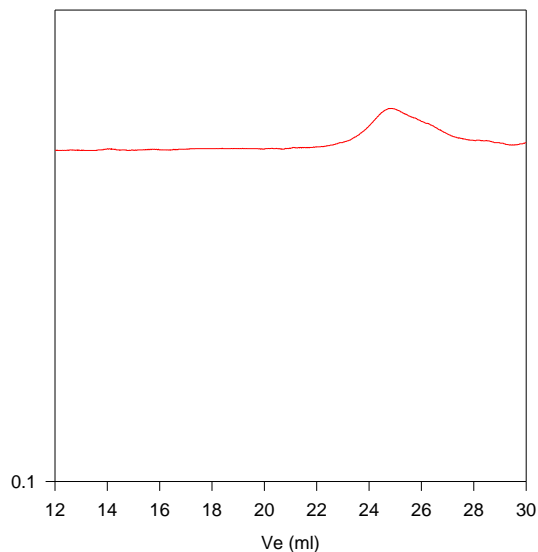
Thermal analysis of the samples was carried out using a differential scanning calorimeter (TA Q100) at a heating rate of 10°C/min. The inflection glass transition temperature (T_g) has been considered.

Solubility:

Poly(trifluoro ethyl methacrylate) is soluble in THF, CHCl₃, toluene and dioxane. The polymer precipitates from cold methanol and ethanol.

SEC of Homopolymer:

P5449B-MATRIFE



Size exclusion chromatograph of Poly trifluoro ethylmethacrylate:

M_n=5,000, M_w=7,500, PI=1.5

DSC thermogram for the polymer:

