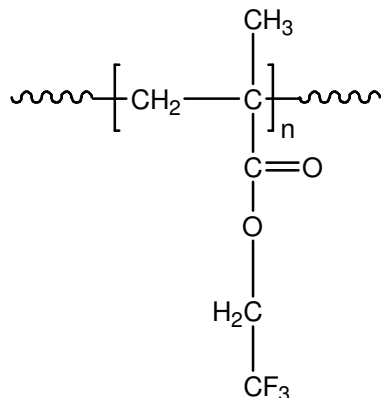


Sample Name:
Poly(trifluoro ethyl methacrylate)
Sample #: P5444-MATRIF

Structure:



Composition:

$M_n \times 10^3$	PDI
30.0	1.6
$T_g (^{\circ}\text{C})$	73

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.

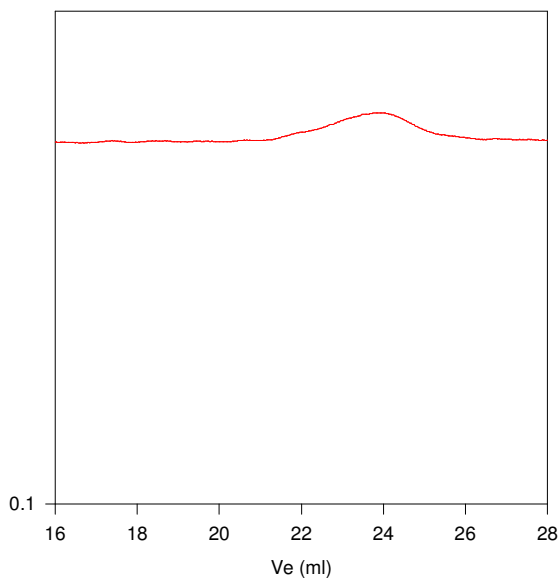
Thermal Analysis:

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, CHCl_3 , toluene and dioxane. The polymer precipitates from cold methanol and ethanol.

SEC of Homopolymer:
P5444-MATRIFE



Size exclusion chromatograph of Poly trifluoro ethylmethacrylate:

$M_n=30,000$, $M_w=48,000$, $PI=1.6$

DSC thermogram for the polymer:

