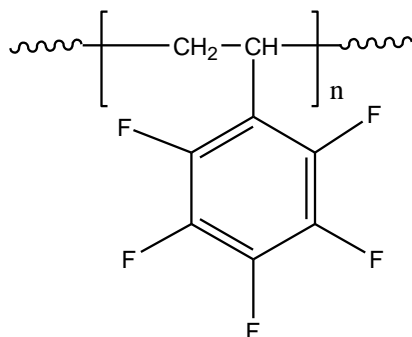


Sample Name: Poly pentafluoro styrene

Sample #: P16253-5FS

Structure:



Composition:

$M_n \times 10^3$	PDI
17.0	1.16
$T_g (^{\circ}\text{C})$	100

Synthesis Procedure:

Poly Penta fluorostyrene is obtained by RAFT polymerization 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 of the sample 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.

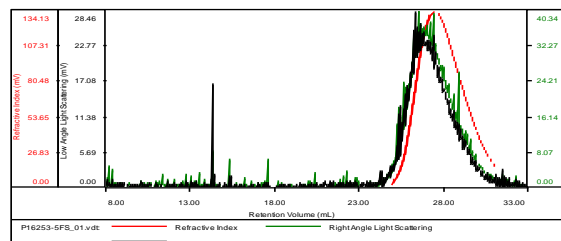
Solubility:

Polymer is soluble in DMF, THF, toluene and CHCl_3 . It precipitates from methanol, ethanol, water and hexanes.

SEC of Homopolymer:

P16253-5FS

Concentration (mg/mL)	17.1100
Sample dn/dc (mL/g)	0.1700
Method File	PS80K-august2017-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	M_n (Da)	M_w (Da)	M_w/M_n	IV (dL/g)	M_p (Da)
P16253-5FS_01.vdt	16,753	19,507	1.164	0.2639	18,783

DSC thermogram for the polymer:

