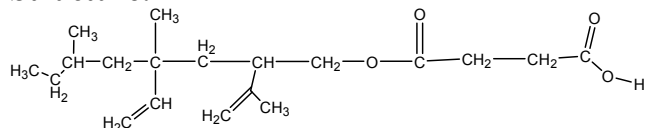


Sample Name: COOH Terminated
Polyisoprene , 1, 2 and 3,4 -rich
microstructure

Sample #: P10690-IPCOOH

Structure:



Composition:

$M_n \times 10^3$	PDI
5.1	1.10
COOH functionality	>98%

Synthesis Procedure:

Buy anionic polymerization process.

Characterization:

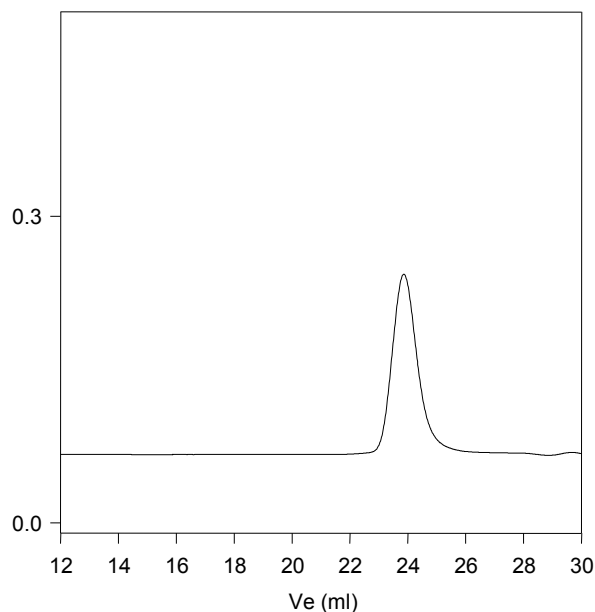
The molecular weight and polydispersity index (PDI) are obtained by size exclusion chromatography (SEC) in THF. SEC analysis was performed on a Varian liquid chromatograph equipped with refractive and UV light scattering detectors. Three SEC columns from Supelco (G6000-4000-2000 HXL) were used with triple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

Solubility:

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

SEC of Sample:

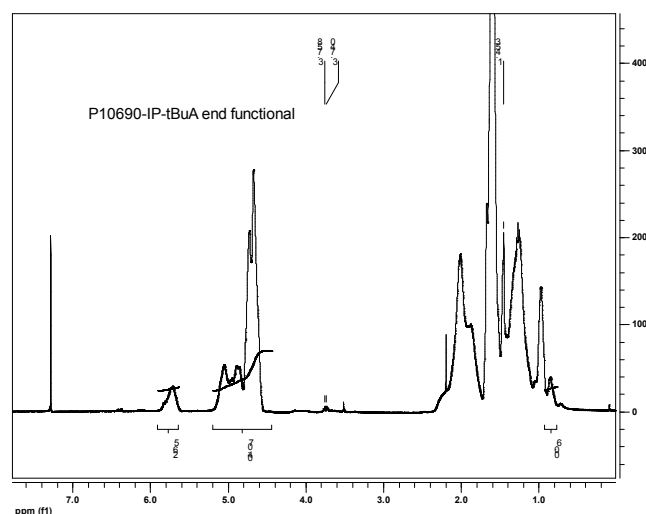
P10690-IPCOOtBu(1,2 and 3,4 rich addition)



Size Exclusion Chromatogram Polymer:

— Polyisoprene: $M_n=5100$, $M_w=5600$, $M_w/M_n=1.10$

HNMR of the polymer tBuA end functionalized Poly isoprene



After converting tert butylester to COOH terminal group:

