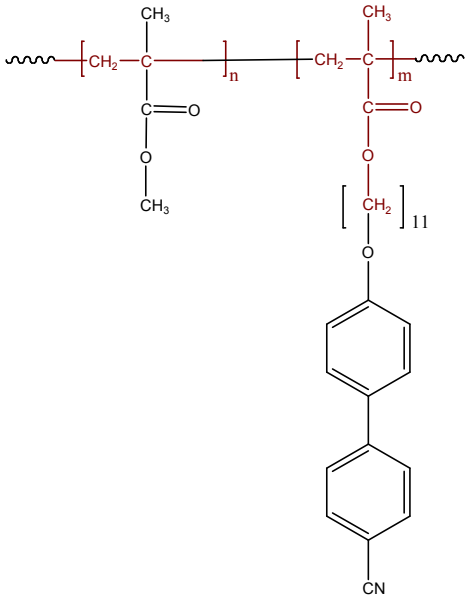
Sample Name:
Poly(Methylmethacrylate-b-11-(4′-cyanobiphenyl-4-yloxy) undecyl methacrylate

Sample #: ***P10791-MMA-4CNBP11CMA***

Structure:



Composition:

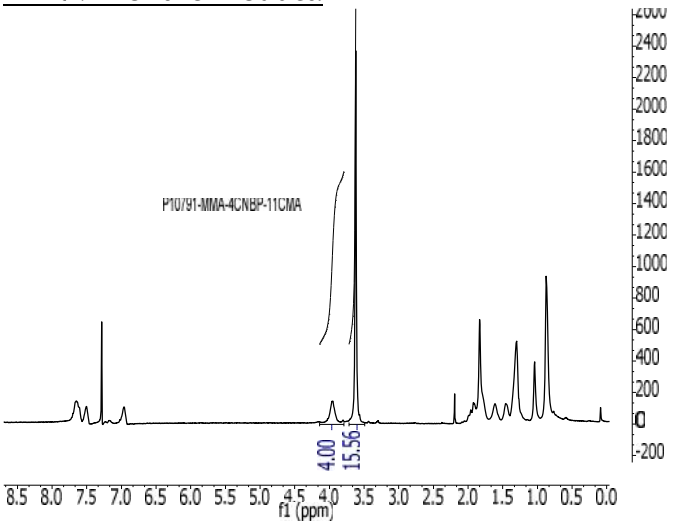
Mn x 10^3 PMMA-b-4CNBP11CMA	PDI
11.0-b-9.0	1.25
Microstructure of 4CNBP11CMA	Syndio:hetero:iso 53:32:15

Synthesis Procedure: Anionic and controlled radical process

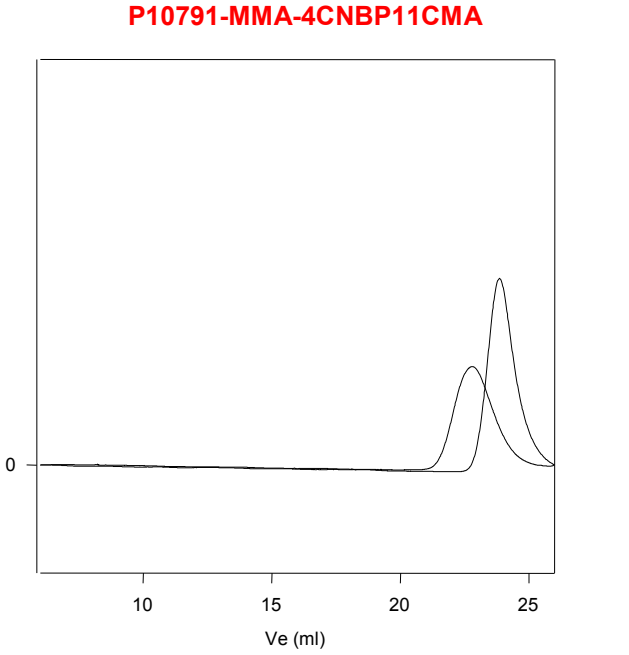
Purification of the polymer:
The un-reacted 11-LCMA monomer was removed by stirring the polymer in hot Methanol. The obtained polymer dissolved in $CHCl_3$/toluene and pass through the column packed with silica. The polymer was recovered by precipitation in cold ether/hexane mixture.

Solubility:
Polymer is soluble in $CHCl_3$, THF and toluene. The polymer precipitated out from hexane.

^{1}H NMR of the Product:



SEC of the block copolymer:



Size exclusion chromatography of the product:
Br-end terminated Poly(Methylmethacrylate), M_n=11,000, PI=1.09
Block Copolymer MMA(11,000)-b-4-CNBP11CMA (9,000), PI=1.25