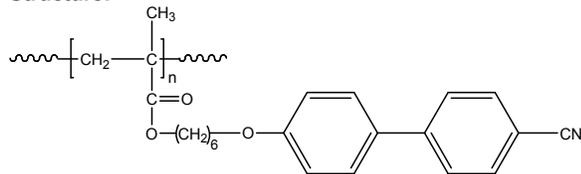


Sample Name:

Poly(6-(4'-cynaobiphenyl-4-yloxy)hexyl methacrylate)

Sample #: P10884B-4CNBPMA

Structure:

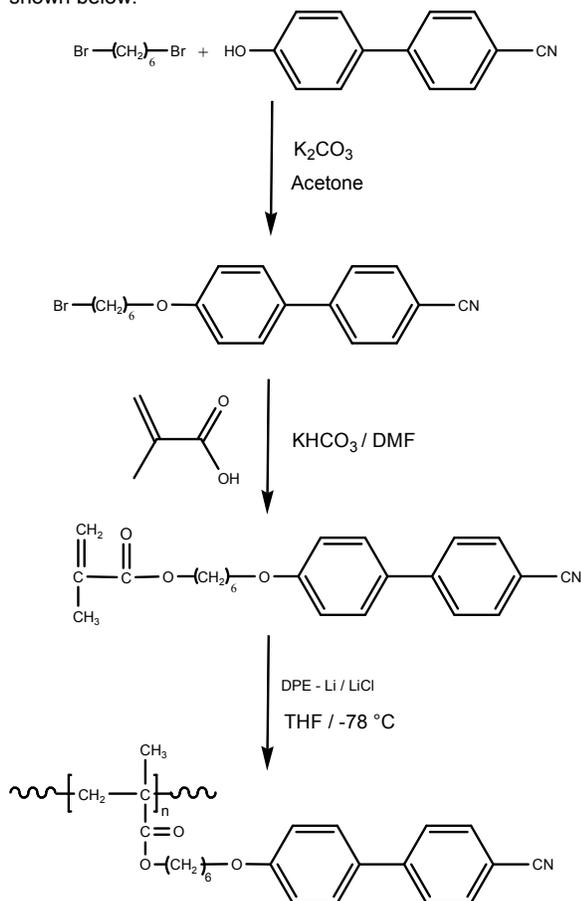


Composition:

Mn x 10 <sup>3</sup>	PDI
9.0	1.5

Synthesis Procedure:

Poly(6-(4'-cynaobiphenyl-4-yloxy)hexyl methacrylate) is obtained by living anionic polymerization of the monomer. The reaction scheme used for the polymer synthesis is shown below:



Characterization:

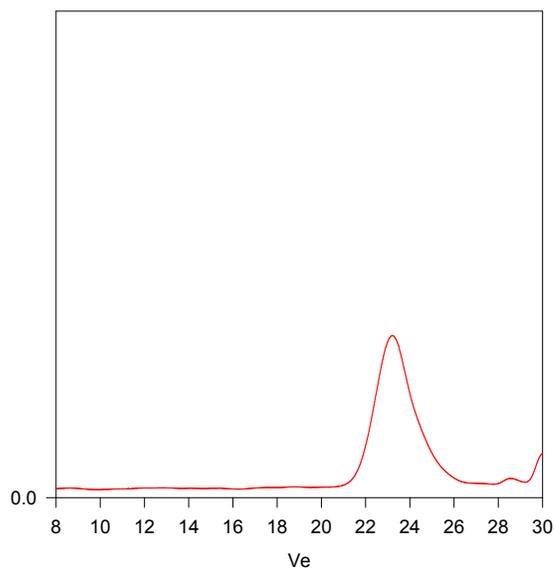
The molecular weight and polydispersity index (PDI) of Poly(6-(4'-cynaobiphenyl-4-yloxy)hexyl methacrylate) are obtained by size exclusion chromatography.

Solubility:

Poly(6-(4'-cynaobiphenyl-4-yloxy)hexyl methacrylate) is soluble in THF, acetone, dichloromethane and chloroform but insoluble in hexane, ethanol and water.

SEC of Homopolymer:

P10884A-4CNBPMA



Size Exclusion Chromatography of:

Poly[6-[4-(4-cyanophenyl)phenoxy]hexyl methacrylate]

$M_w = 11,000$   $M_w/M_n = 1.45$