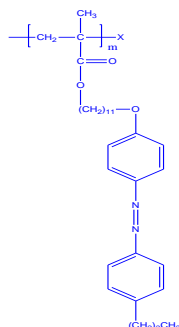


Sample Name: Poly(AzoMA)

(AZoMA=11-[4-(4-butylphenylazo)phenoxy]-undecyl methacrylate)

Sample #: P9485-AzoMA

Structure:



Composition:

$M_n \times 10^3$	PDI
11.0	1.09
Microstructure	Syndio:heter:iso 63:37:0

Synthesis Procedure:

Poly(AzoMA) is prepared by anionic polymerization using diphenyl methyl potassium initiator.

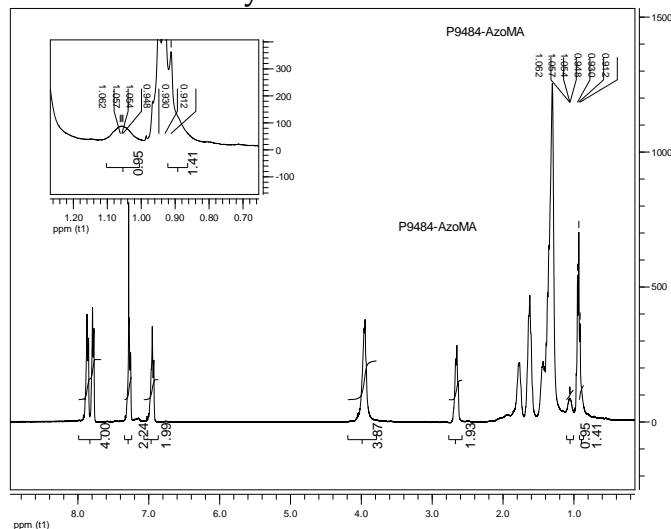
Characterization:

Polymer was analyzed by size exclusion chromatography (SEC) to obtain the molecular weight.

Solubility:

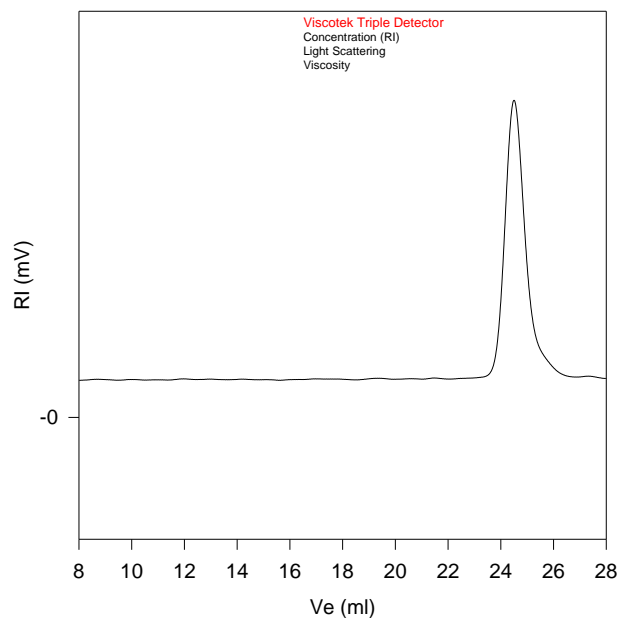
Poly(AzoMA) is soluble in THF, acetone, and chloroform and it precipitates out in hexane or cold methanol.

HNMR of the Polymer:



SEC of the Product:

P9485-AZOMA



Size Exclusion Chromatography of Polymer:

— PAZOMA : $M_n = 11,000$ $M_w/M_n = 1.09$

Thermal analysis of the sample# P9485-AzoMA

Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

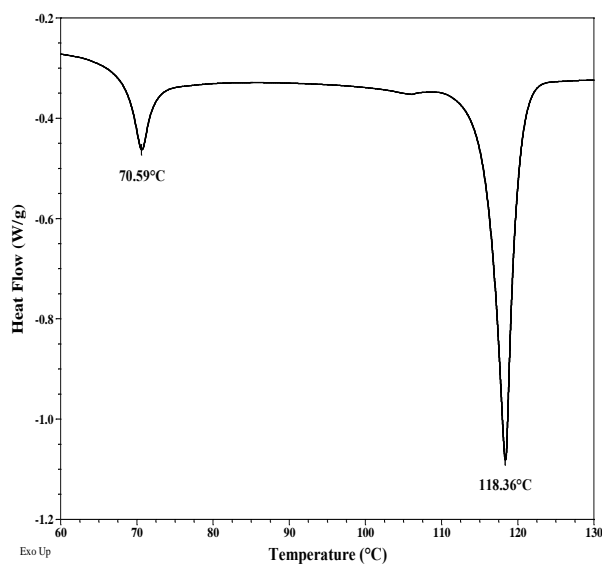
Melting and crystallization curve for the sample

The melting temperature (T_m) was taken as the maximum of the endothermic peak where as the crystallization temperature (T_c) was considered as the minimum of the exothermic peak.

Thermal analysis results at a glance

Sample	T_m (°C)	T_c (°C)	T_g (°C)
AzoMA	71/118	66/113	-

Crystallization curve for AzoMA



Melting curves for AzoMA

