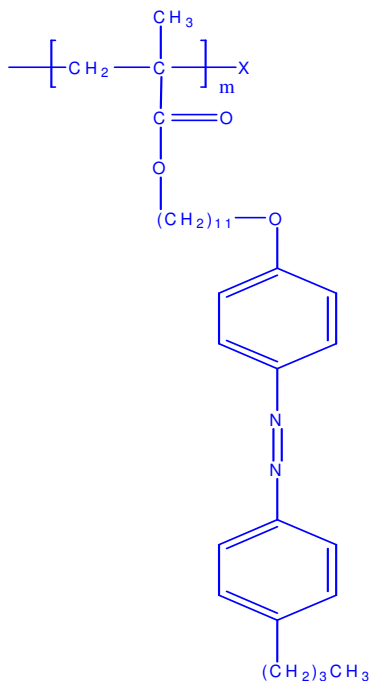


Sample Name: Poly(AzoMA)

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

Sample #: P5658B-AzoMA

Structure:



Composition:

Mn × 10 ³	PDI
18.0	2.0
T _m (°C): 95	T _c (°C): 93

Synthesis Procedure:

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

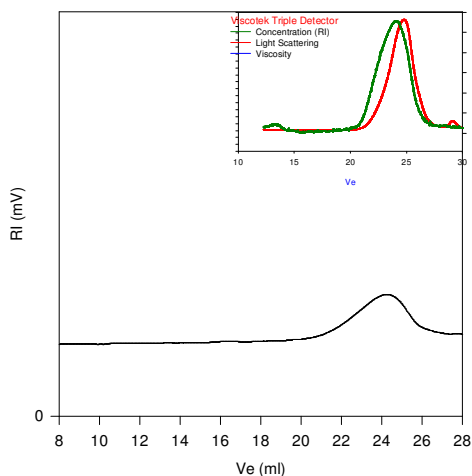
Characterization: Polymer was analyzed by size exclusion chromatography (SEC) to obtain the molecular weight. Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The melting temperature (T_m) was taken as the maximum of the endothermic peak where as the crystallization temperature (T_c) was considered as the minimum of the exothermic peak.

Solubility:

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

SEC of the Product:

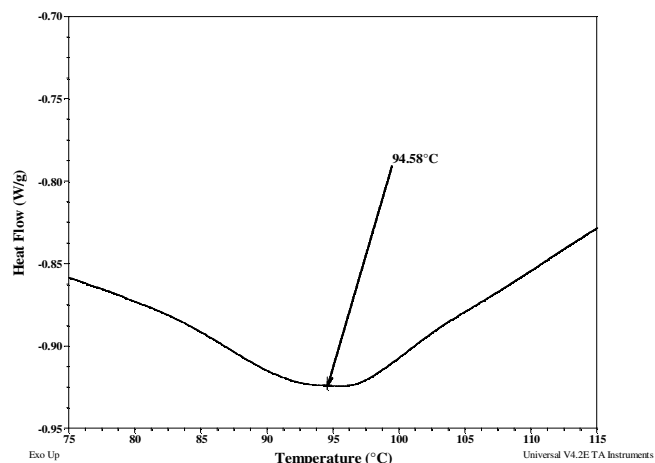
P5698-AZOMA



Size Exclusion Chromatography of Polymer:

— PAZOMA : M_n = 18000 M_w/M_n = 2.0
Solution Viscosity in THF at 35 °C: 0.078dl/g
dn/dc in THF at 35 °C: 0.106 ml/g
Rgw: 8.45nm

Melting curve for the polymer:



Crystallization curve for the polymer:

