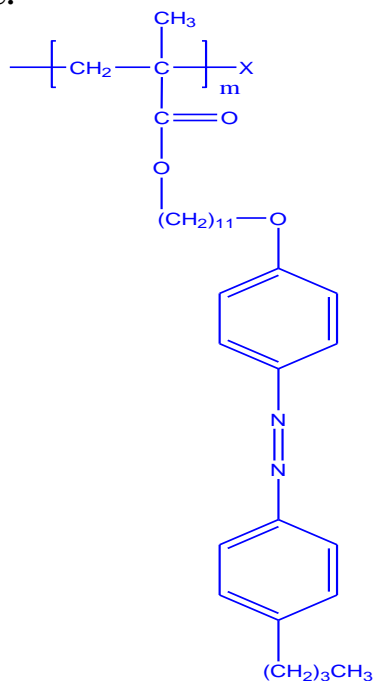


**Sample Name: Poly(AzoMA)**

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

**Sample #:** P5852-AzoMA

**Structure:****Composition:**

$M_n \times 10^3$	PDI
14.0	1.5
$T_m$ (°C): 95	$T_c$ (°C): 93

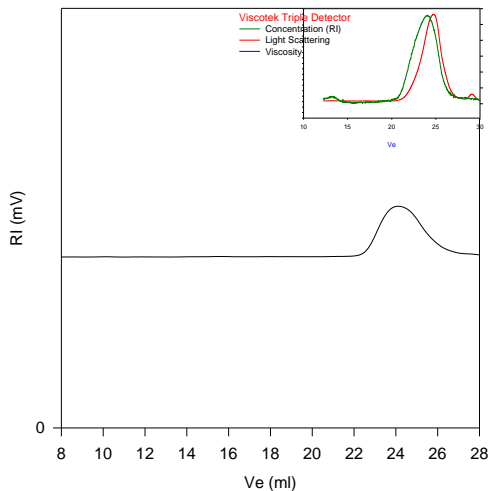
**Synthesis Procedure:**

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 whereas the crystallization temperature ( $T_c$ ) was considered as the minimum of the exothermic peak.

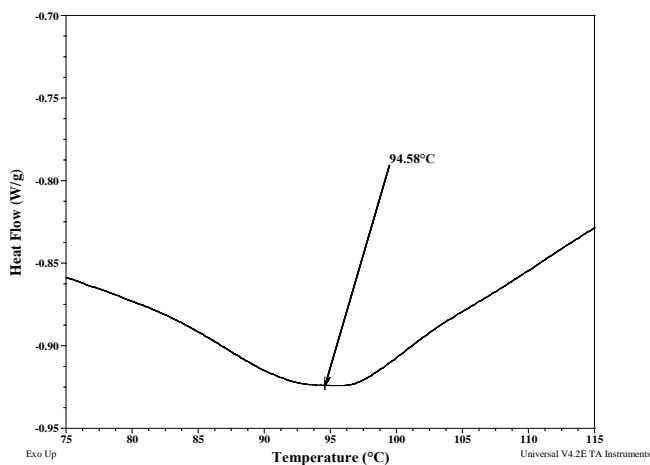
**Solubility:**

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

**SEC of the Product:****P5852-AZOMA**

Size Exclusion Chromatography of Polymer:

— PAZOMA :  $M_n = 14000$   $M_w/M_n = 1.5$   
 Solution Viscosity in THF at 35 °C: 0.058 dl/g  
 $dn/dc$  in THF at 35 °C: 0.106 ml/g  
 $R_{gw}$ : 7.45 nm

**Melting curve for the polymer:****Crystallization curve for the polymer:**