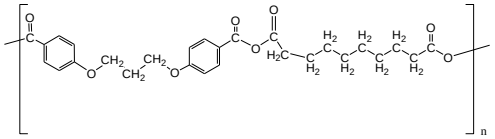
Sample Name: **Polyanhydride based on 1,3 bis(p-carboxyphenoxy) propane: sebacic acid**

Sample #: **P41149A-CPPSA-Anh**

Structure:

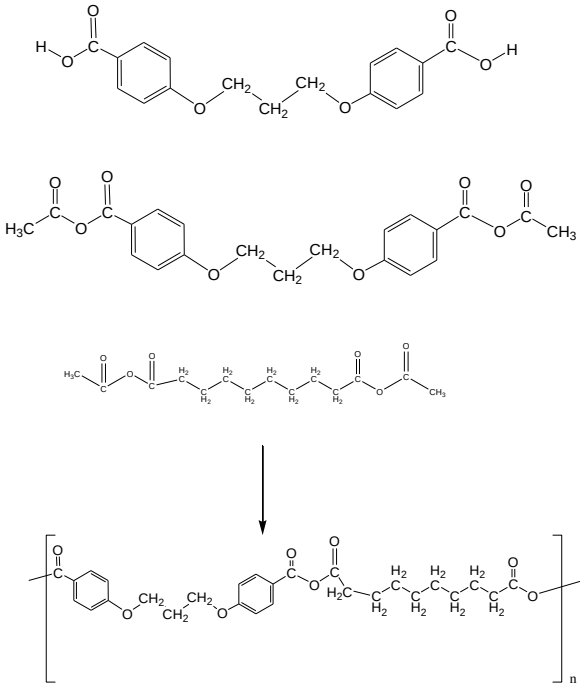


Composition:

[ŋ] Chloroform at 25 °C	Mn x 10^3	Mw/Mn	Tg °C
0.28 dl/g	9.0	2.7	74

CPP: SA (ratio by weight) 20:80

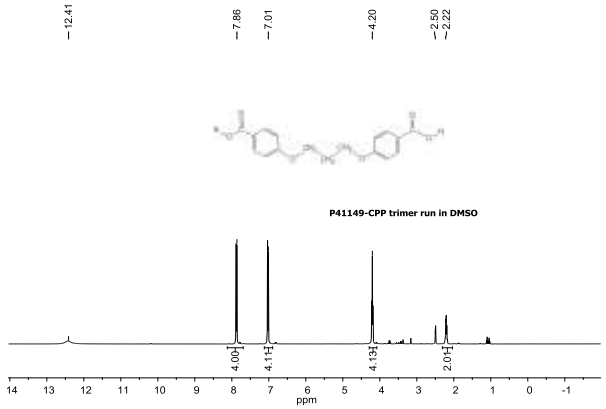
Synthesis Procedure:
The following reaction scheme shows how the product was prepared:



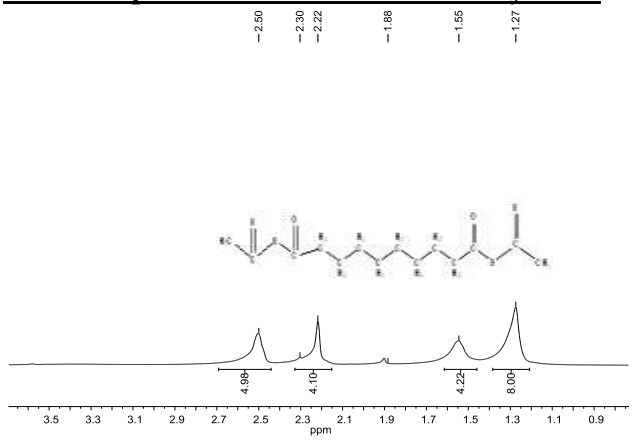
Characterization:
The product was characterized by ^{1}H-NMR spectroscopy, which is run in deuterated DMSO at 400MHz. The inherent viscosity of final polymer was determined by Ubbelohde capillary viscometer in chloroform at 25°C.

Solubility:
The polyanhydride is soluble in chloroform, and dichloromethane.

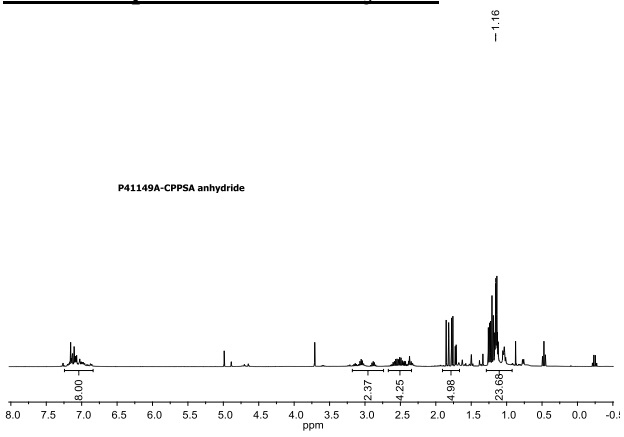
Figure: ^{1}H NMR spectrum of trimer-acid:



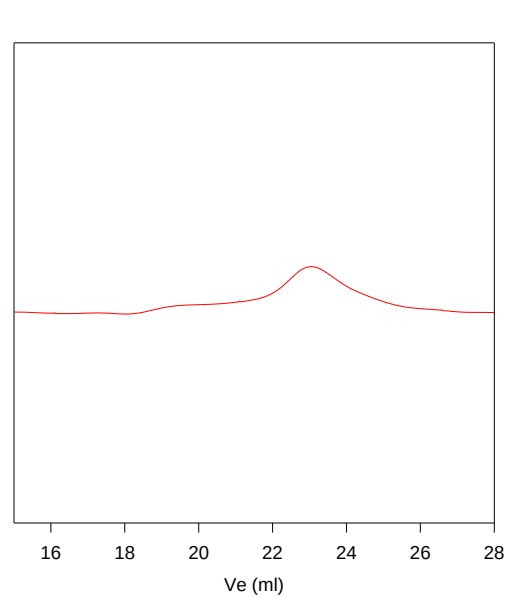
^{1}H NMR spectrum of Sebacic acid dianhydride:



^{1}H NMR spectrum of the Polymer:



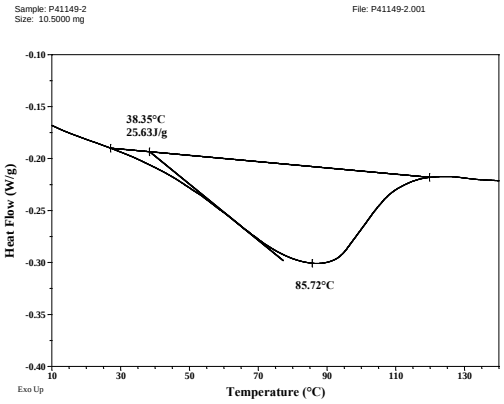
GPC profile of the polymer:



Size Exclusion Chromatography of the polymer in CHCl3

M_n=9,000 Mw/Mn: 2.7

DSC thermal analysis data of CPP trimer



DSC thermal analysis of P41149-A product:

(2nd heating scan, 10 °C/min):