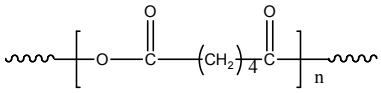
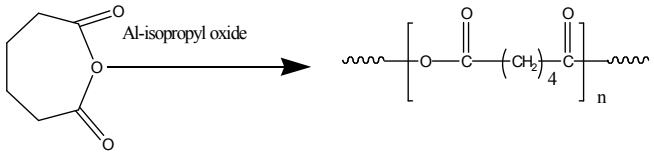
Sample Name: **Poly(adipic anhydride)**
Sample #: **P4080-Aanh Lot# P4080A**
Structure:



Composition:

Mn x 10^3	PDI
5.0	-
T_g=29°C	T_m=62°C; T_c=26°C

Synthesis Procedure:
The polymerization of adipic anhydride was initiated with aluminum (III) *isopropyl oxide*, and the reaction is shown below.



Characterization:

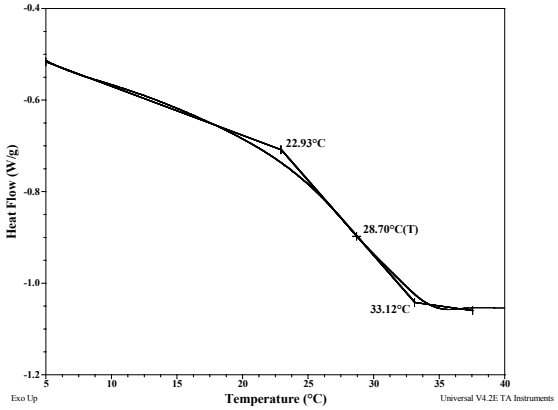
The molecular weight is determined by light scattering in chloroform.

Thermal analysis of the sample:

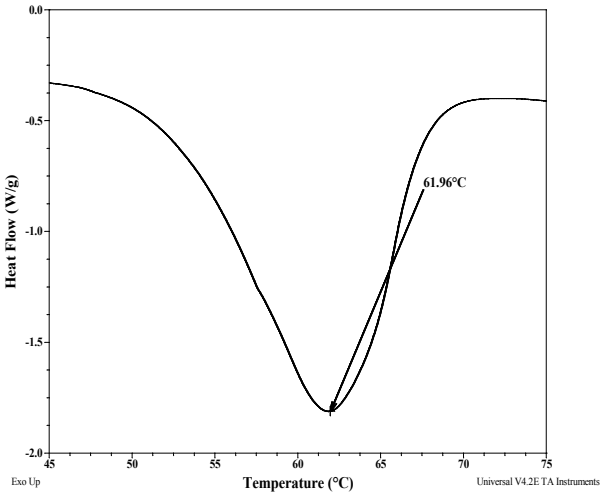
Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The melting temperature (T_m) was taken as the maximum of the endothermic peak where as the crystallization temperature (T_c) was considered as the minimum of the exothermic peak.

Solubility:
Poly(adipic anhydride) is soluble in toluene, THF, $CHCl_3$ and CH_2Cl_2. The polymer is insoluble in methanol, hexane and ether.

Thermogram for the polymer:



Melting curve:



Crystallization curve:

