

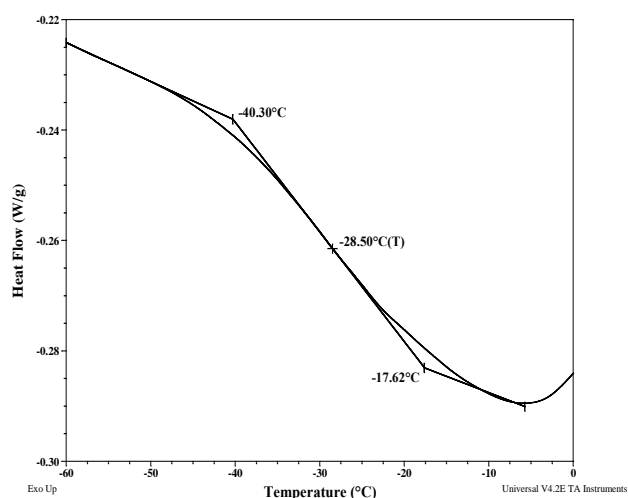
Thermal analysis of the Sample

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

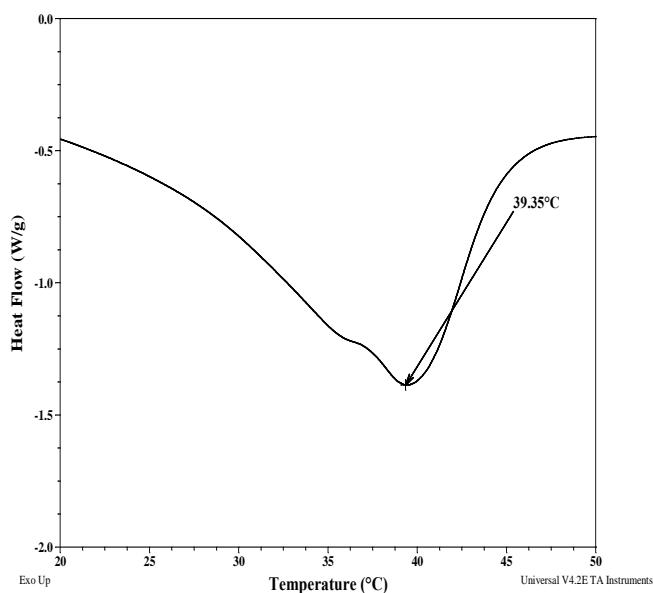
Melting and crystallization curve for the sample

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.

Thermogram for EO block:



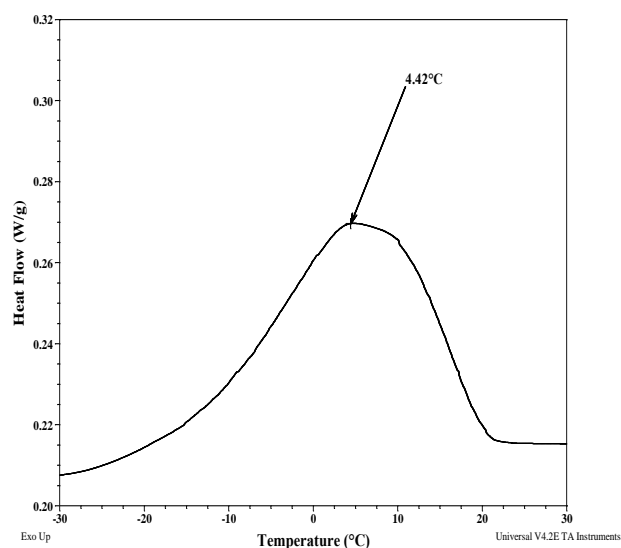
Melting curve for EO block:



Thermal analysis results at a glance

Sample	T_m (°C)	T_c (°C)	T_g (°C)
EO (homopolymer)	38	26	-65
Cholic acid (CA)	62	43	-
EO in EOCH3CA	39	04	-29
CA in EOCH3CA	74	-	-

Crystallization curve for EO block:



Melting curve for Cholic acid

