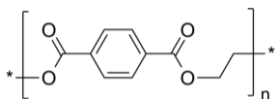


Sample Name: Poly(ethylene terephthalate), polyester [PET]

Other name: poly(ethyl benzene-1,4-dicarboxylate)

Sample #: P3411-ET

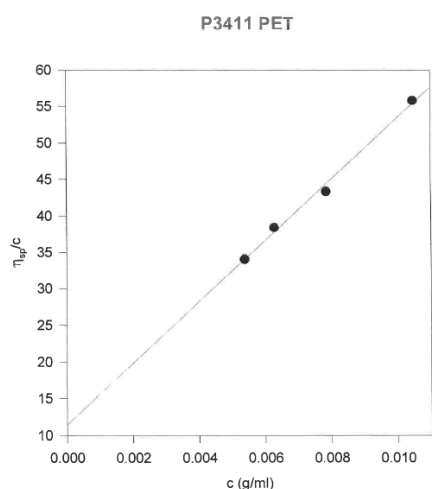
Structure:



Composition:

MV: 100,000
CAS Number: 25038-59-9

Intrinsic Viscosity Measurement of the Sample:



Intrinsic Viscosity measurement of PET in phenol/tetrachloroethane (60/40, v/v) at 26°C
 $[\eta] = 11.386 \text{ (cm}^3/\text{g)} = 1.1386 \text{ (dL/g)}$
 Viscosity Average Molecular Weight $M_v = 100,000$

Thermal analysis of the sample# P3411-ET

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).

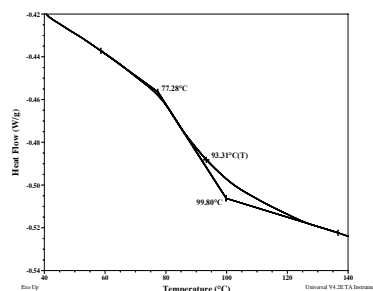
Melting and crystallization curve for the sample

The melting temperature (T_m) was taken as the maximum of the endothermic peak whereas the crystallization temperature (T_c) was considered as the minimum of the exothermic peak.

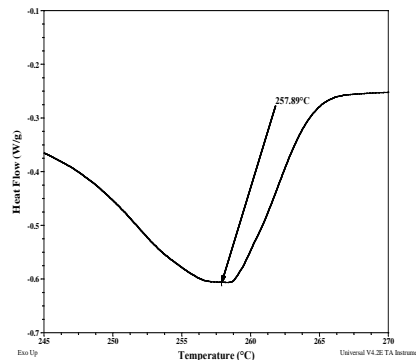
Thermal analysis results briefly:

T_g	T_m	T_c
93°C	258°C	217°C

Thermogram for PET:



Melting curve for PET:



Crystallization curve for the sample:

