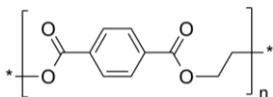


**Sample Name:** Poly(ethylene terephthalate), polyester [PET]

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

**Sample #:** P3411-ET

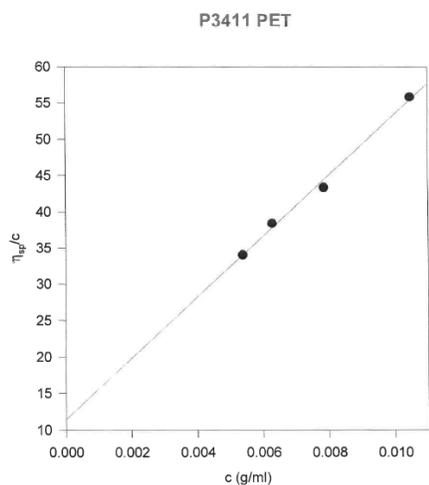
**Structure:**



**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 ( $T_g$ ).

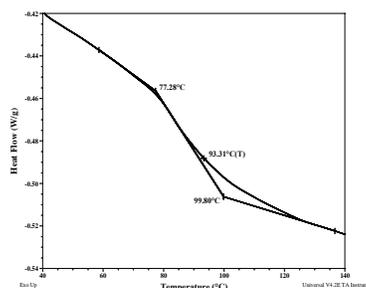
**Melting and crystallization curve for the sample**

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.

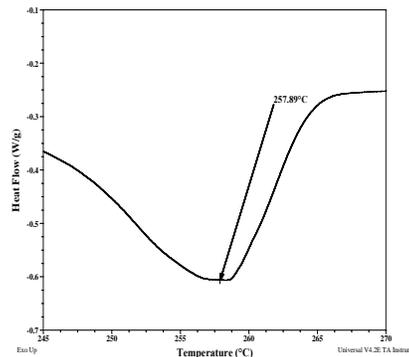
**Thermal analysis results briefly:**

$T_g$	$T_m$ :	$T_c$ :
93°C	258°C	217°C

**Thermogram for PET:**



**Melting curve for PET:**



**Crystallization curve for the sample:**

