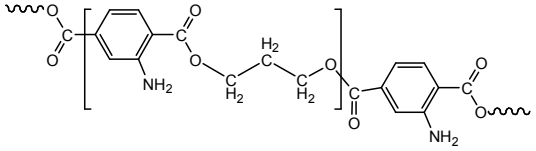
Sample Name: Poly (trimethylene amino terepthalate)
Sample #: **P19323A-TAT**

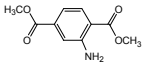
Structure:



Composition:

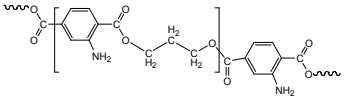
Mw x10^3	T_m (^{o}C)	T_g (^{o}C)
35.5	-	54.0

Synthesis Procedure: Melt condensation Process



molar ratio : 50:50

Propane-1,3-diol
catalyst



Characterization : SEC analysis in THF gives lower values (Mw 18,000) . It was found strong interaction of polymer with the packing material of the column.
Molecular weights were determined in DMF at 60 oC using light scattering detectore model viscotek 307.

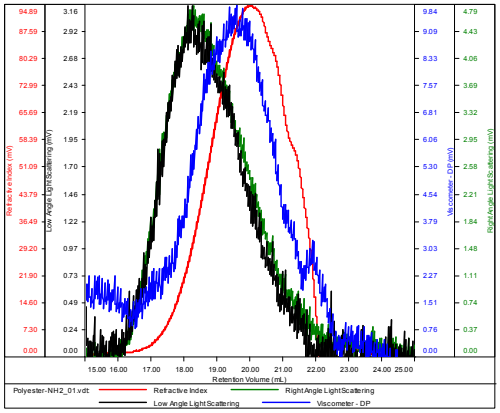
Solubility:
Polymer is soluble in THF, DMF.

Thermal analysis
Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10^{o}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.

SEC of the sample:

SAMPLE ID: P19323-TAT

Conc (mg/mL)	17.7030
dn/dc (mL/g)	0.0450
Method	ps80k-May2015-0000.vcm
Solvent	DMF w 0.03M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
Polyester-NH2_01.vdt	17,833	35,437	16,787	1.987	0.0167

HNMR carried out in DMF