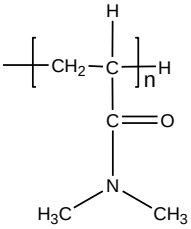
Sample Name:
Poly(N-N-dimethylacrylamide)
Sample #: P14735-DMA
Structure:



Composition:

M_n x 10^3	PDI
134.5	1.26
T_g (^{o}C)	111
Tacticity : rr:mr:mm	20:60:20

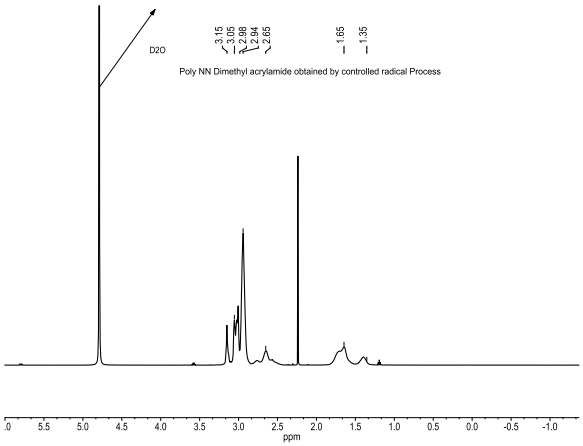
Synthesis Procedure:
The polymer is synthesized by GTP polymerization.

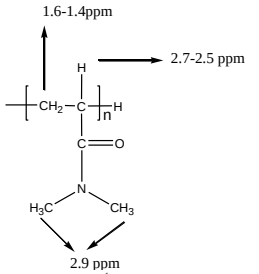
Characterization:
The molecular weight and polydispersity index (PDI) of the polymer are obtained by size exclusion chromatography

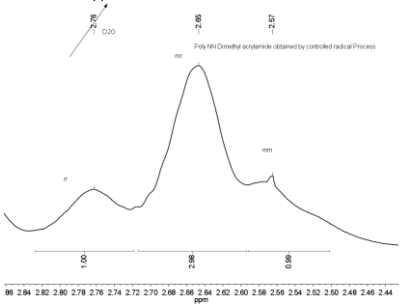
Thermal analysis:
Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10^{o}C/min.The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

Solubility:
Polymer is soluble in methanol, ethanol and water, precipitated in hexane.

H NMR:



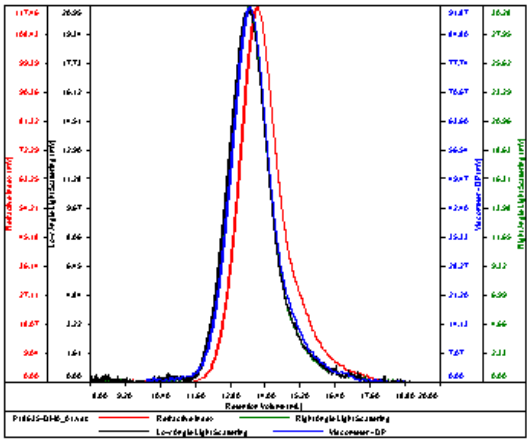




SEC of Homopolymer:

SAMPLE ID: P14735-DMA

Conc (mg/mL)	3.5452
dn/dc (mL/g)	0.0870
Method	ps30k0+2014+0000.wcm
Solvent	DMF w/ 0.03M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P1 35-DMA_01.ddl	143,182	177,445	160,734	1.239	0.5037

DSC thermogram for the polymer: