

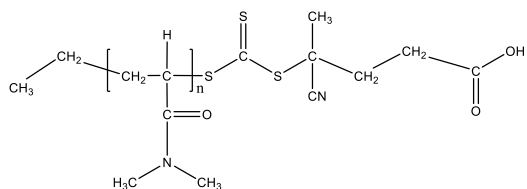
Product Profile

Identification

Product Name: Poly(N-N-dimethylacrylamide)

Product Lot Number: P41270AA-R-DMA

Product Chemical Architecture:

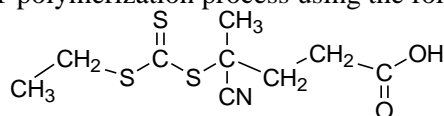


Composition:

Mn (g/mole)	7,000
MW (g/mole)	8,500
MW/Mn	1.23
dn/dc (mL/g)	1.65 in water

Method of Synthesis

The polymer is prepared by RAFT polymerization process using the following RAFT moiety:



Solubility in different solvents

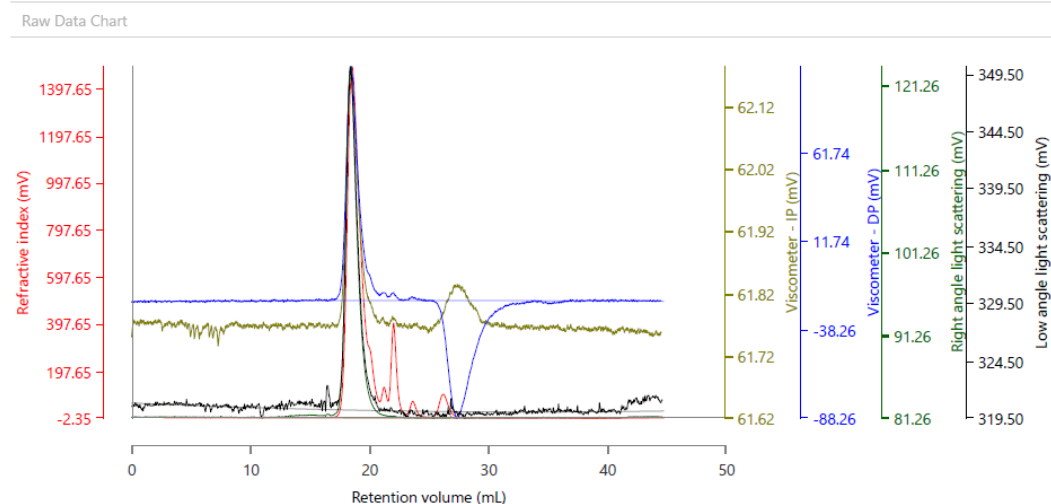
THF	√	DMF	√
Alcohol	√	CHCl ₃	√
Toluene	X	DMSO	√

Validation of Architecture

A. Gel Permeation Chromatography (GPC), SEC- Profile:

Polymer Source

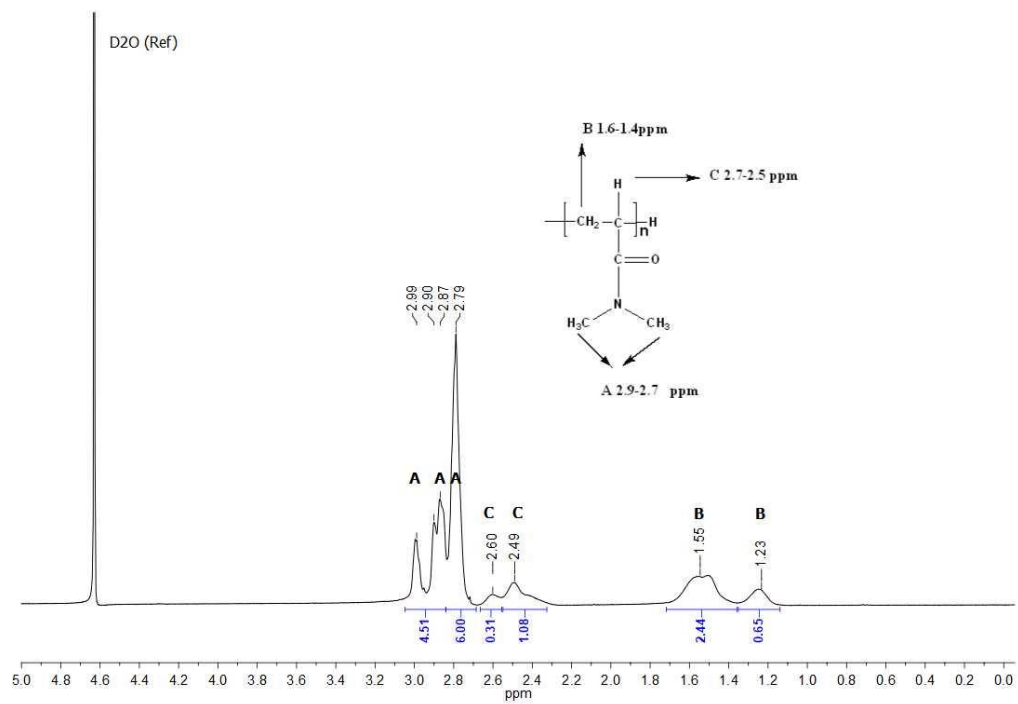
Malvern Panalytical



Results (Rows)

Injection Name	RV (mL)	Mn (g/mol)	Mw (g/mol)	Mp (g/mol)	Mz (g/mol)	Mw/Mn
P41270AA, Injection 1, Peak 1	18.53	6,885	8,497	9,363	10,102	1.234

B. NMR (HNMR) OF PDMA general



C. Dependence of glass transition temperature (T_g) of PDMA from its molecular weight:

