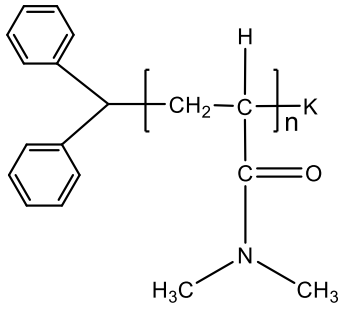
Product Profile

Identification

Product Name: Poly(N-N-dimethylacrylamide)
Product Lot Number: P5113-R-DMA
Product Chemical Architecture:



Composition:

Mn (g/mole)	**2,800**
MW (g/mole)	**3,000**
Mw/Mn	**1.08**
dn/dc (mL/g)	**0.165 in water**

Method of Synthesis

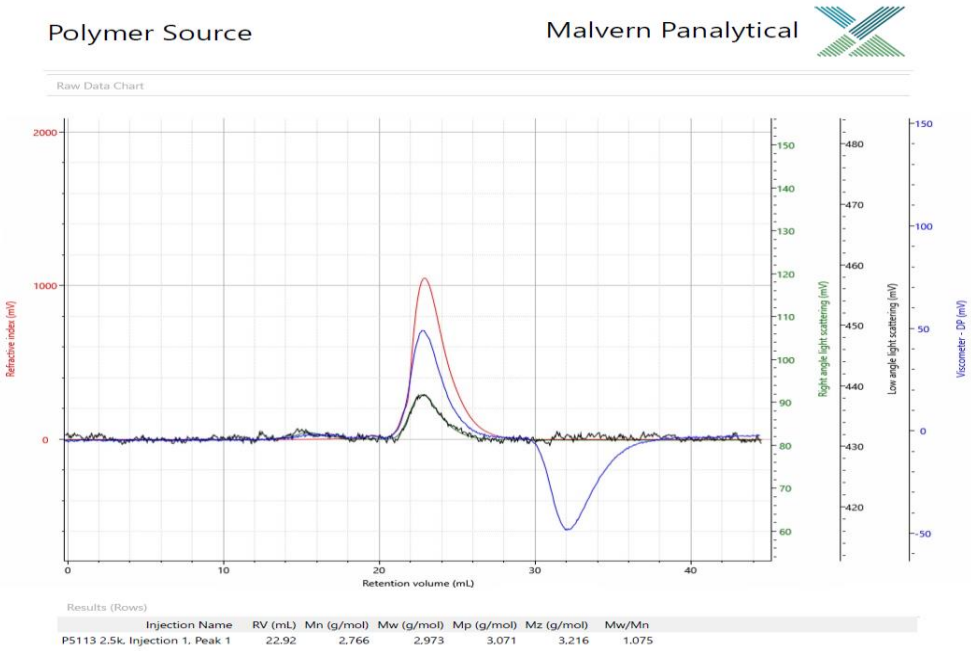
The polymer is synthesized by anionic polymerization using (Ph)2CHK as initiator.

Solubility in different solvents

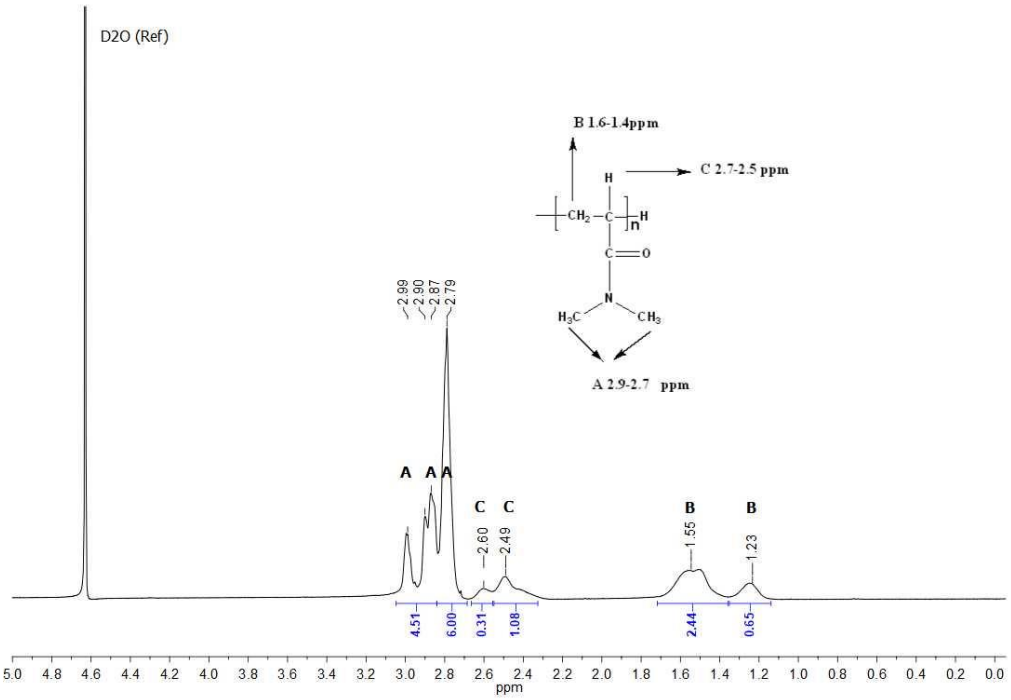
THF	√	DMF	√
Alcohol	√	CHCl3	√
Toluene	X	DMSO	√

Validation of Architecture

A. <u>Gel Permeation Chromatography (GPC), SEC- Profile:</u>



B. **NMR (HNMR) OF PDMA general**



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