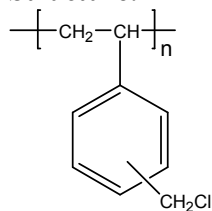


Sample Name: Poly (vinyl benzyl chloride)
90% para isomer

Sample #: P40408-VBC

Structure:

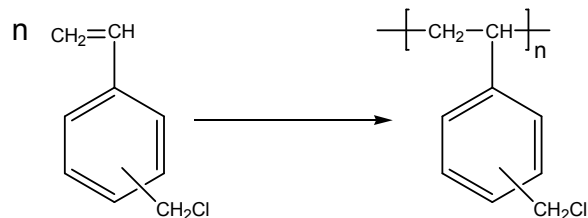


Composition:

$M_n \times 10^3$	PDI
144.0	3.8

Synthesis Procedure:

Poly (vinyl benzyl chloride) is obtained by free radical polymerization of 4-vinyl benzyl chloride or a mixture of 3- and 4-vinyl benzyl chloride. The reaction scheme is shown below.



Characterization:

The molecular weight and polydispersity index (PDI) of Poly (vinyl benzyl chloride) are obtained by size exclusion chromatography.

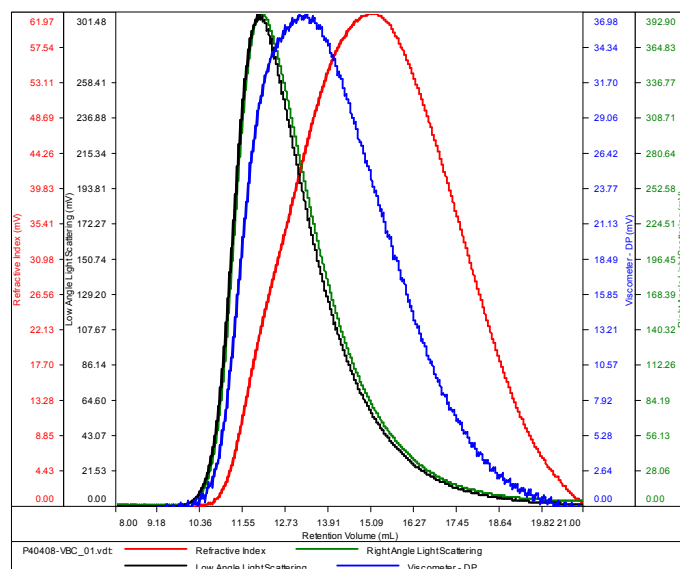
Solubility:

Polymer is soluble in DMF, THF, toluene and $CHCl_3$. It precipitates from methanol, ethanol, water and hexanes.

SEC of homopolymer:

P40408-VBC

Conc (mg/mL)	12.0270
dn/dc (mL/g)	0.1650
Method	PS80k_December-2016-0004.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40408-VBC_01.vdt	143,853	545,937	213,555	3.795	0.1504