

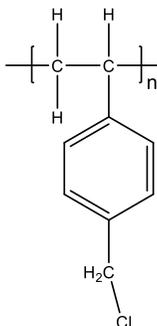
Product Profile

Identification

Product Name: Poly(4-vinyl benzyl chloride)

Product Lot Number: P45041A-VBC

Product Chemical Architecture:



Composition: 90% para isomer monomer.

| Mn x 10 ³ | Mw/Mn (PDI) | CAS# of monomer |
|----------------------|-------------|-----------------|
| 12.0 | 1.4 | 1592-20-7 |

Method of Synthesis: one of the following route;

| | |
|---------------|---|
| By TEMPO-AIBN | √ |
| ATRP | |
| RAFT | |
| Ionic process | |

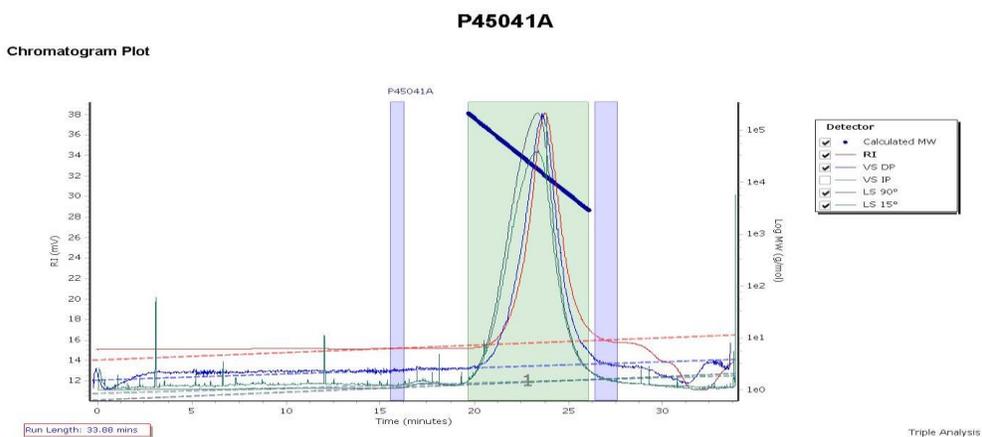
Solubility in different solvents

| | | | |
|-------------------|---|-----|---|
| THF | √ | | |
| CHCl ₃ | √ | DMF | √ |
| Toluene-Hot | √ | | |

Purification of Polymer to remove unreacted monomer: By solvent non solvent precipitation.

Validation of Architecture:

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



Molecular Weight Averages

| Peak | Mp (g/mol) | Mn (g/mol) | Mw (g/mol) | Mz (g/mol) | Mz+1 (g/mol) | Mv (g/mol) | PD |
|--------|------------|------------|------------|------------|--------------|------------|-------|
| Peak 1 | 13928 | 11789 | 16847 | 24497 | 35113 | 22165 | 1.429 |