

Product Profile

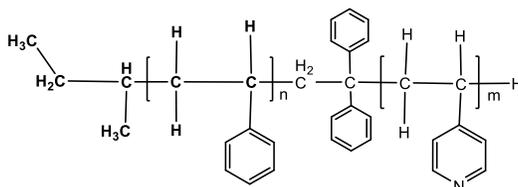
Identification

Product Name: Poly(styrene-b-4-vinyl-pyridine)

Product Lot Number: P9675-R-S4VP

CAS #: 26222-40-2

Product Chemical Architecture:



Composition:

Composition (S-b-4VP)	16,000-b-6,000
4VP mole%	26.8
Mn (g/mole)	22,000
Mw (g/mole)	26,000
Mw/Mn	1.17
dn/dc (mL/g) in DMF at 35 °C	0.162

Method of Synthesis

The polymer is synthesized by anionic polymerization process.

Solubility in different solvents:

THF	Depends on composition	DMF	√
Alcohol	Depends on composition	CHCl ₃	√
Toluene _(hot)	X	Water	X

Validation of Architecture

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

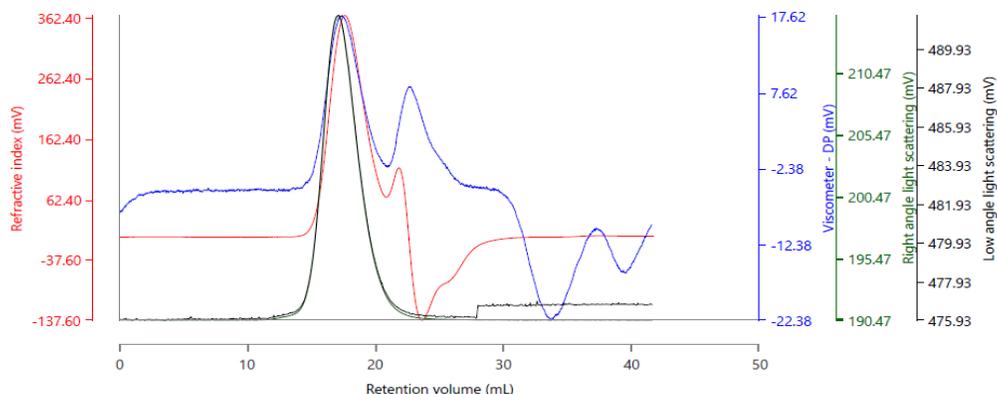
Molecular weights were determined by Malvern OmniSec Reveal & Resolve GPC/SEC System equipped with Triple detector (RI, Viscometer, RALS 90° and LALS 7°) and two columns (PSS, SDV, 8x300 mm). DMF with 0.023M LiPr was the eluent. The flow rate was 0.7 ml/min.

Polymer Source

Malvern Panalytical



Raw Data Chart



Results (Rows)

Injection Name	RV (mL)	Mn (g/mol)	Mw (g/mol)	Mp (g/mol)	Mz (g/mol)	Mw/Mn
P9675, Injection 1, Peak 1	17.63	22,062	25,711	23,312	33,860	1.165

