

Product Profile

Identification

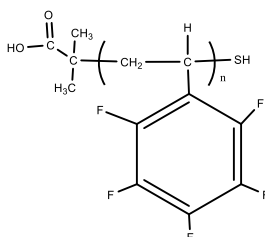
Product Name: Poly(pentafluorostyrene)

Synonym(s): 2,3,4,5,6-Pentafluorostyrene homopolymer

Linear Formula: (C₈H₃F₅)_n

CAS Number: 26838-55-1

Product # P44261-5FS

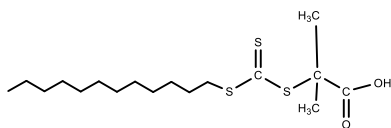


Composition:

Mn (g/mole)	24,500
Mw (g/mole)	32,500
Mw/Mn	1.3
dn/dc (mL/g) in THF at 30 °C	0.184

Method of Synthesis

The polymer is synthesized by RAFT polymerization process using:



Solubility in different solvents:

THF	√		
Alcohol	X	CHCl₃	√
Toluene	√	Water	X

Validation of Architecture

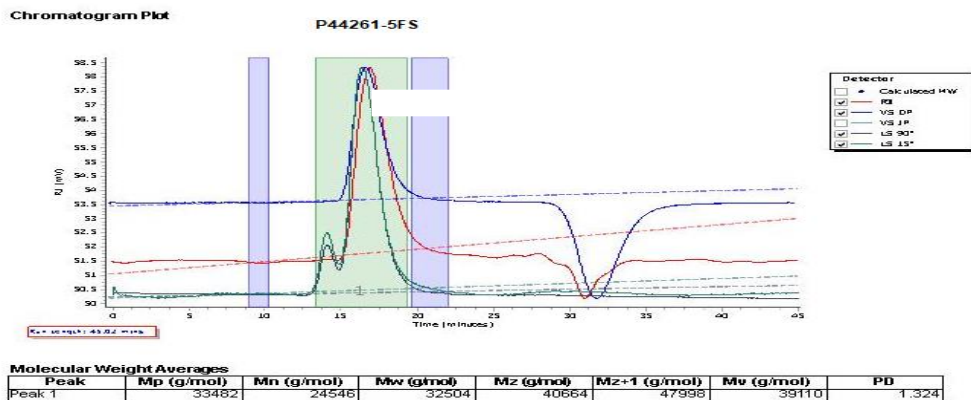
A. Gel Permeation Chromatography (GPC), SEC Profile:

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Polymer Source,™ Inc.

Molecular weights were determined by Agilent Technologie 1260 Infinity II GPC/SEC System equipped with Triple detector (RI, Viscometer, RALS 90° and LS 15°) and three columns (PLgel, 7.5x300 mm, 5µm-10µm, 10⁵-10⁶Å). THF (stabilized BHT) with 1%(v/v%) TEA was the eluent. The flow rate was 1.0 ml/min.



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