

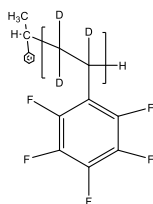
Product Profile

Identification

Product Name: Deuterated (d3) poly pentafluorostyrene

Product Lot Number: P45079A-d3-5FS

Product Chemical Architecture:



Composition:

Mn x 10 ³	Mw/Mn (PDI)
27.5	1.38

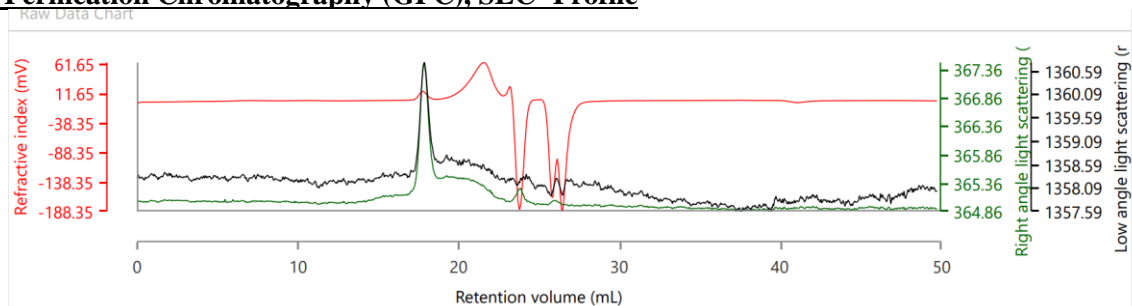
Method of Synthesis: By anionic process using cumyl potassium.

Solubility in different solvents

THF	√
CHCl ₃	√
Toluene	√

Validation of Architecture:

Gel Permeation Chromatography (GPC), SEC- Profile



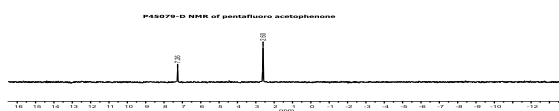
Injection Name	Mn (g/mol)	Mw (g/mol)	Mp (g/mol)	Mw/Mn
Peak 1	27,588	38,191	53,137	1.384

Monomer is used in this process:

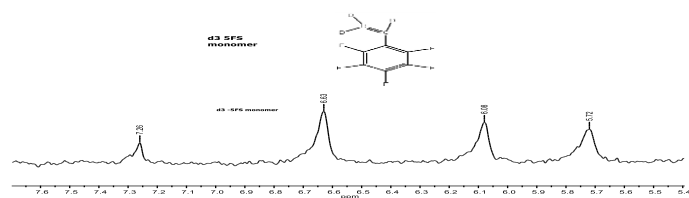
Sample: d3-5FS (Lot# P45079) 2,3,4,5,6-Pentafluorostyrene-d3	197.0
D atom %	97%
Chemical Purity	96%

²D NMR of d3-5FS: Monomer synthesis

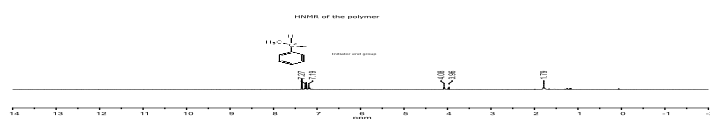
1. Pentafluoroacetophenone:



2. 5FS-d3 monomer



HNMR of Polymer:



D NMR of the polymer:

