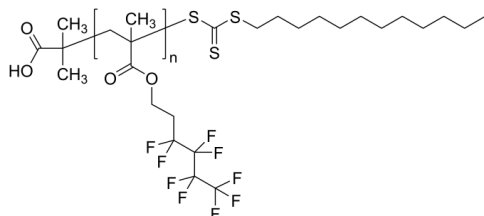


**Sample Name:** Poly(2-[perfluorobutyl]ethyl methacrylate)  
 Or Poly (3,3,4,4,5,5,6,6,6-nanofluorohexyl methacrylate)

**Sample #:** P42181-9FBEMA

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup>	PDI
9.0	1.19

Glass transition temperature:	T <sub>g</sub> = 18 °C
Degradation temperature (5% wt loss):	T <sub>on</sub> = 164 °C
CAS Number: 1799-84-4	

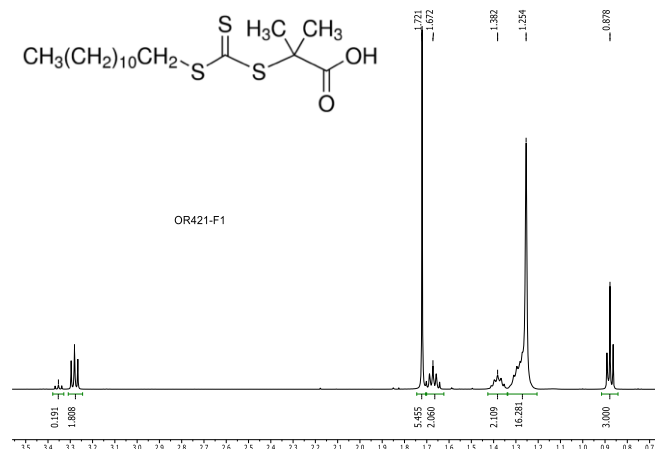
**Synthesis Procedure:**

The polymer was prepared by RAFT polymerization process.

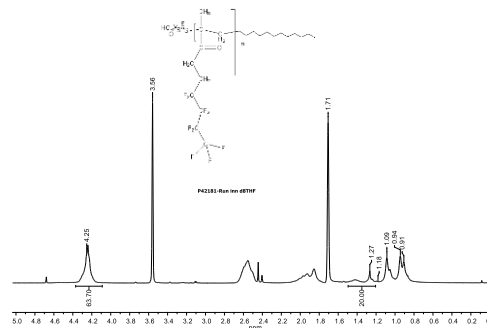
**Characterization:**

The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>H NMR.

**<sup>1</sup>H NMR spectrum of the RAFT macroinitiator:**

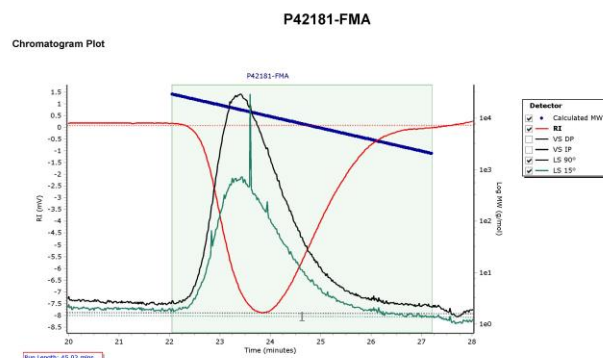


**HNMR of the polymer carried out in (d8) THF:**



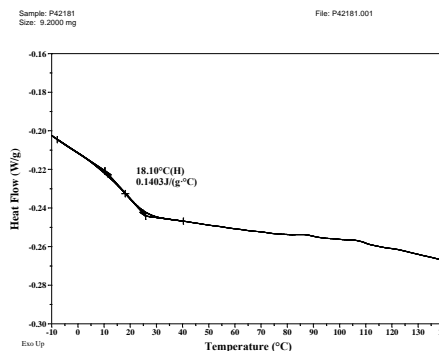
Homo poly9-BE-methacrylate polymer shows negative response of dn/dc in THF.

**SEC elugram of the Sample:**



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	11754	9097	10647	12444	13834	11817	1.192

**DSC thermogram (2<sup>nd</sup> heating scan, 10 °C/min):**



**TGA thermogram (5 °C/min, under N<sub>2</sub>):**

