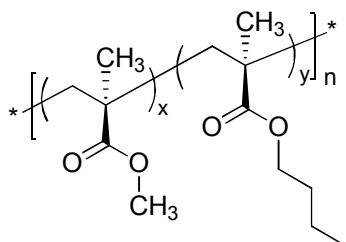


Sample Name: Poly(methyl methacrylate-*co*-n-butyl methacrylate), *isotactic-rich random copolymer*

Sample # P40343-MMA_nBuMA_ran-iso

Structure:



Composition:

Mn x 10 ³ (g/mol)	Mw/Mn
70.0	1.5
MMA : nBuMA (mol %)	49 : 51
T _g (°C):	-4 °C
isotactic:	> 92%

Synthesis Procedure:

Poly(methyl methacrylate-*co*-n-butyl methacrylate) random copolymer was prepared by anionic polymerization.

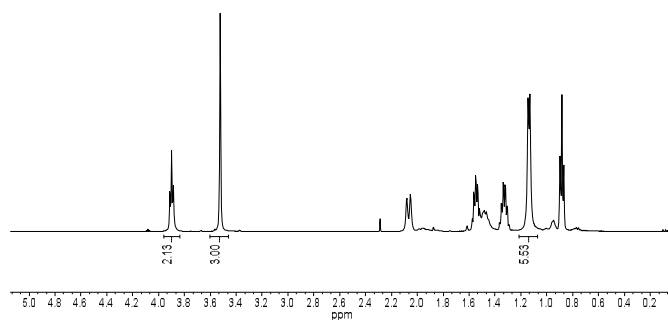
Characterization:

The molecular structure and tacticity of the polymer were confirmed by ¹H NMR spectroscopy analysis. The molecular weight and polydispersity index (M_w/M_n) of the polymer were obtained by size exclusion chromatography (SEC) using DMF as an eluent.

Thermal Analysis:

Thermal analysis was performed on TA Instruments Q100 differential scanning calorimeter (DSC) under a nitrogen atmosphere. The glass transition temperature (T_g) of the polymer was measured at a scan rate of 10°C/min shortly after creating thermal history of the sample.

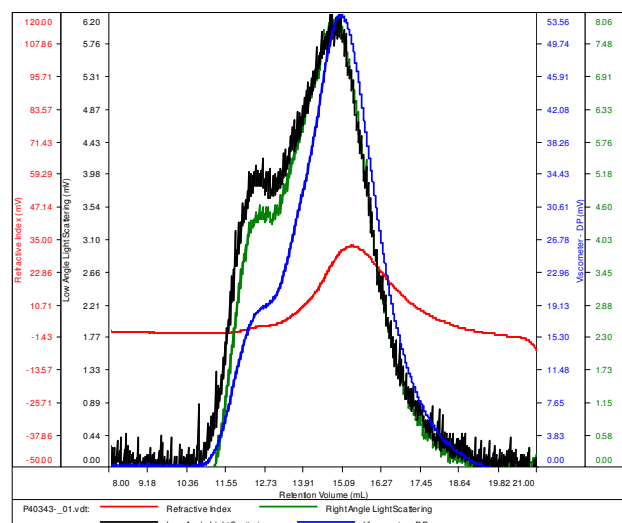
¹H NMR (500 MHz, CDCl₃) spectrum:



SEC elugram of the polymer in DMF:

P40343-MMA_nBuMA_ran

Conc (mg/mL)	8.0245
dn/dc (mL/g)	0.0650
Method	PS80k_December-2016-0004.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40343_01.vdt	69,958	107,130	86,151	1.531	0.2023

DSC thermogram (2nd heating scan, 10°C/min):

