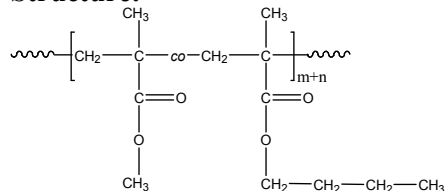


Sample Name:

Isotactic Rich Random Copolymer Poly (methyl methacrylate-co-n-butyl methacrylate)

Sample #: **P40470-MMA_nBuMA_ran**

Structure:



Composition:

Mn x 10 ³ PMMA-co-PnBuMA	PDI
111.5	1.45
MMA:nBuMA molar ratio	55:45
Tg °C	10.5 °C
Iso contents	>86%

Synthesis Procedure:

Random Copolymer Poly (methyl methacrylate-co-n-butyl methacrylate) is prepared by anionic polymerization.

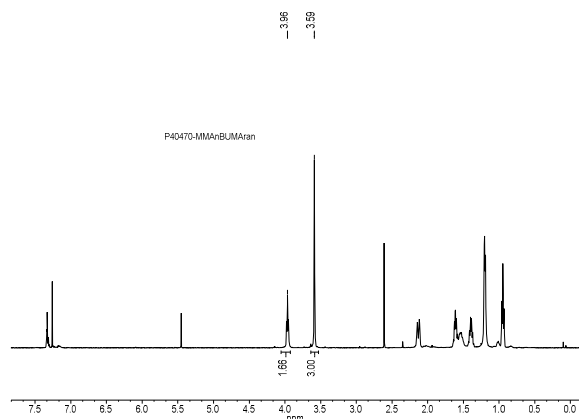
Characterization:

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

Thermal analysis

Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

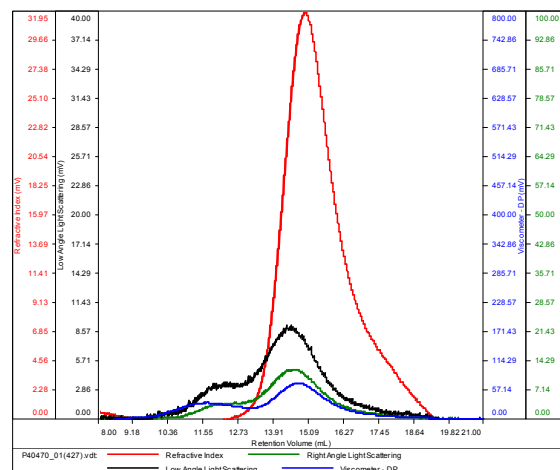
¹H-NMR Spectrum of the random Copolymer:



SEC elugram of the random Copolymer:

P40470-MMA_nBuMA_ran isotactic

Conc (mg/mL)	6.7230
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
P40470_01(427).vdt	111,511	165,784	130,141	1.487	0.2636

DSC thermogram for the Copolymer:

