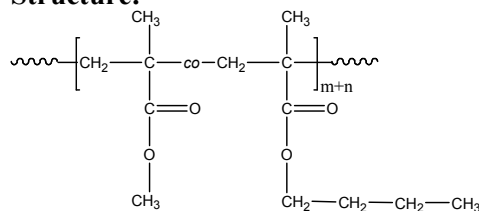


Sample Name: Isotactic Rich Random Copolymer
Poly (methyl methacrylate-co-n-butyl methacrylate)

Sample #: P40357-MMA_nBuMA_{ran}-iso

Structure:



Composition:

Mn x 10 ³ PMMA-co-PnBuMA	PDI
40.5	1.3
MMA:nBuMA molar ratio	57:43
Tg °C	10.5 °C
Iso contents	>83%

Synthesis Procedure:

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

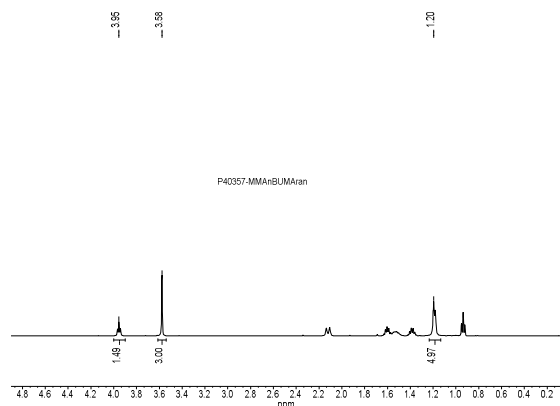
Characterization:

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).

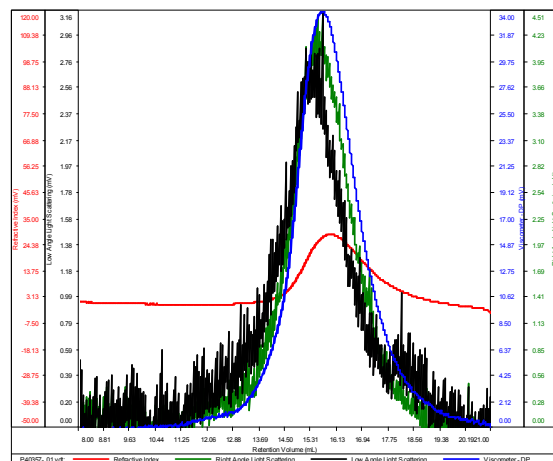
¹H-NMR Spectrum of the random Copolymer:



SEC of the random Copolymer:

P40357-MMA_nBuMA_{ran}

Conc (mg/mL)	6.3075
dn/dc (mL/g)	0.0650
Method	PS80k_December2016-0004.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40357_01.vdt	40,553	53,438	45,950	1.318	0.1414

DSC thermogram for the Copolymer:

