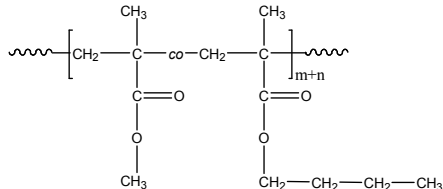


Sample Name:

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

Sample #: **P40469A-MMAnBuMAran**

Structure:



Composition:

Mn x 10 ³ PMMA-co-PnBuMA	PDI
68.0	1.5
MMA:nBuMA molar ratio	55:45
Tg oC	10.5 °C
Iso contents	>80%

Synthesis Procedure:

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

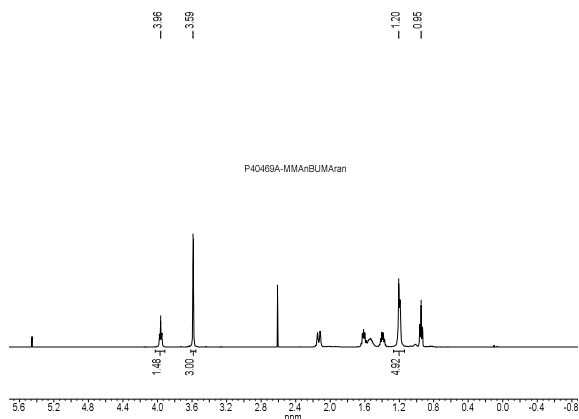
Characterization:

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

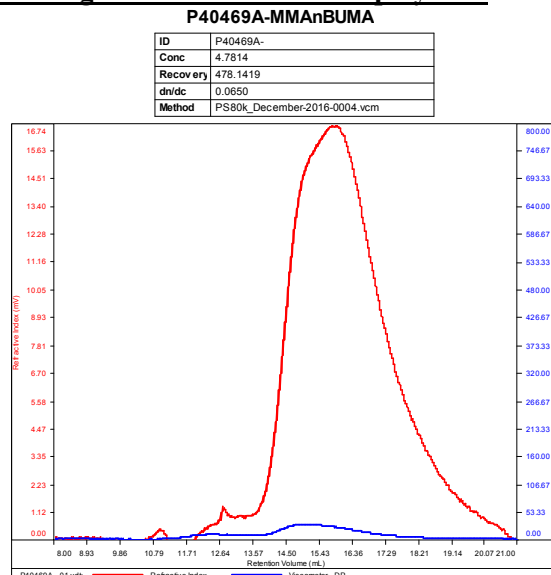
Thermal analysis

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:



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40469A-_01.vdt	67,786	100,345	88,327	1.480	0.1724

DSC thermogram for the Copolymer:

