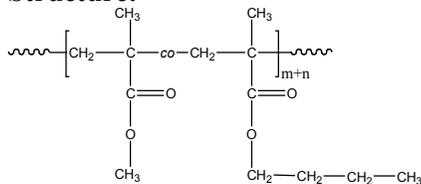


### Sample Name:

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

**Sample #: P40360-MMA<sub>n</sub>BuMA<sub>r</sub>an-iso**

### Structure:



### Composition:

Mn x 10 <sup>3</sup> PMMA-co-PnBuMA	PDI
27.0	1.3
MMA:nBuMA molar ratio	60:40
T <sub>g</sub> °C	10.5 °C
Iso contents	>86%

### Synthesis Procedure:

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

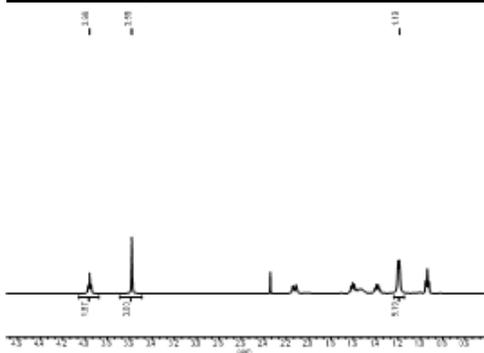
### Characterization:

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

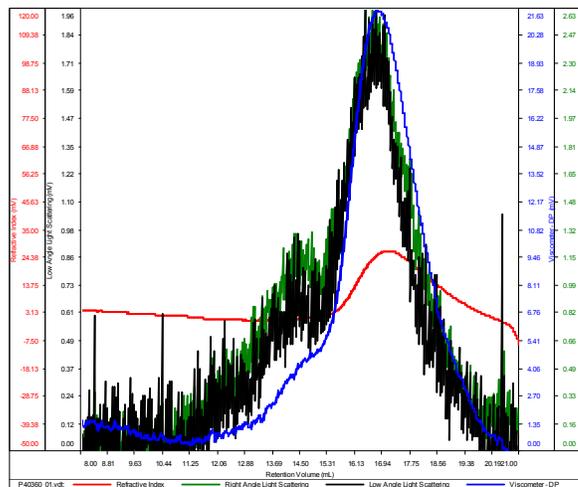
### <sup>1</sup>H-NMR Spectrum of the random Copolymer:



### SEC of the random Copolymer:

**P40360-MMA<sub>n</sub>BuMA<sub>r</sub>an**

Conc (mg/mL)	6.2331
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
P40360_01.vdt	26,812	34,602	28,068	1.291	0.0962

### DSC thermogram for the Copolymer:

