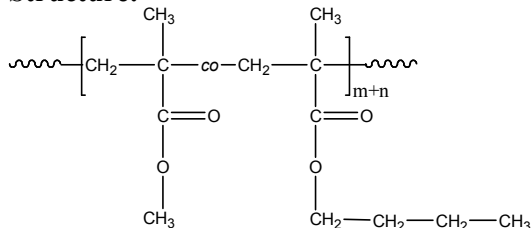


Sample Name:

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

Sample #: **P40350-MMA_nBuMA_r**

Structure:



Composition:

Mn x 10 ³ PMMA-co-PnBuMA	PDI
26.5	1.6
MMA:nBuMA ratio	60:40
Tg oC	10.5 oC
Iso contents	>86%

Synthesis Procedure:

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

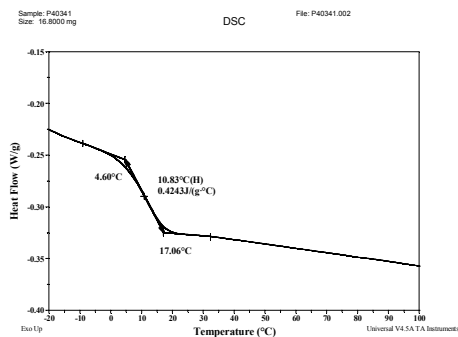
Characterization:

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

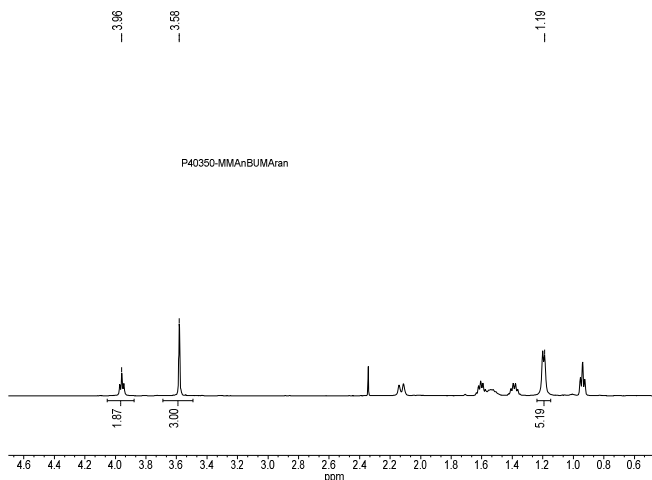
Thermal analysis

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).

DSC thermogram for the Copolymer:



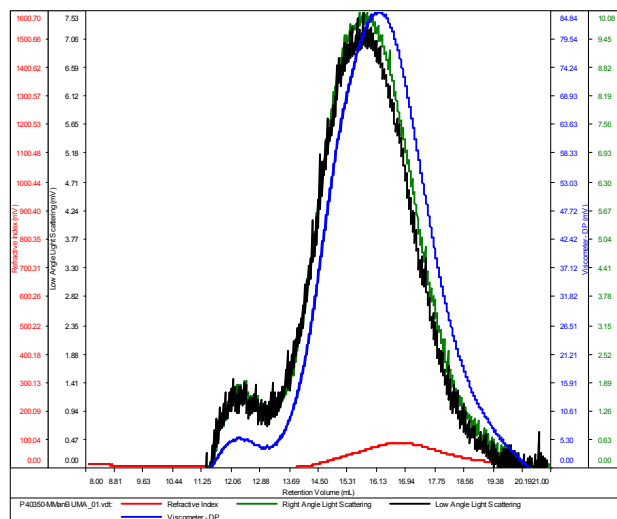
¹H-NMR Spectrum of the random Copolymer:



SEC of the random Copolymer:

P40350-MMA_nBuMA_r

Conc (mg/mL)	24.0483
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
P40350-MMA _n BuMA_01.vdt	26,416	43,554	32,401	1.649	0.1220