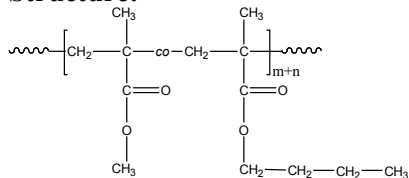


Sample Name:

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

Sample #: **P40359-MMA_nBuMA_ran-iso**

Structure:



Composition:

Mn x 10 ³ PMMA-co-PnBuMA	PDI
13.0	1.4
MMA:nBuMA molar ratio	60:40
Tg oC	-11.7 °C
Iso contents	>83%

Synthesis Procedure:

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

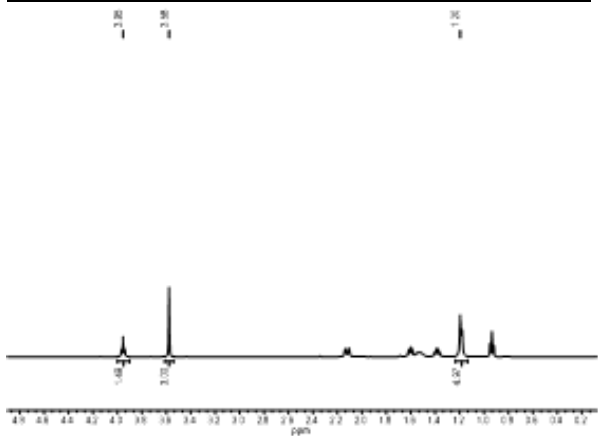
Characterization:

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).

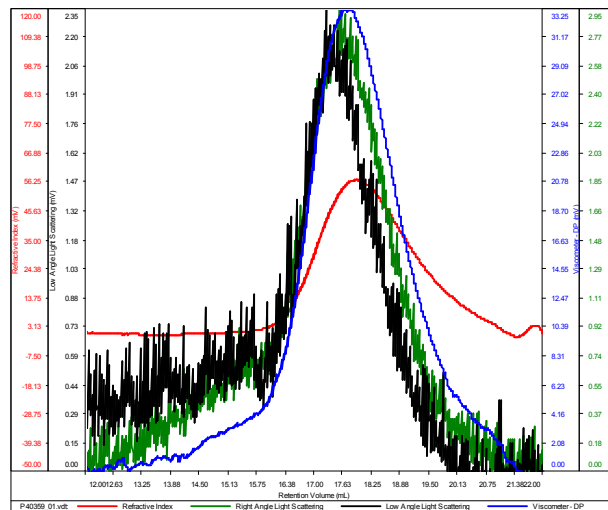
¹H-NMR Spectrum of the random Copolymer:



SEC of the random Copolymer:

P40359-MMA_nBuMA_ran

Conc (mg/mL)	13.1900
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
P40359_01.vdt	13,311	18,880	15,869	1.418	0.0709

DSC thermogram for the Copolymer:

Sample: P40359
Size: 5.5000 mg

File: P40359-MMA_nBuMA_ran.002

