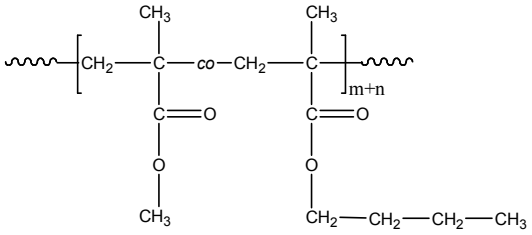
Sample Name:
Isotactic Rich Random Copolymer Poly (methyl methacrylate-co-n-butyl methacrylate)

Sample #: **P40349-MMAnBuMAran**

Structure:



Composition:

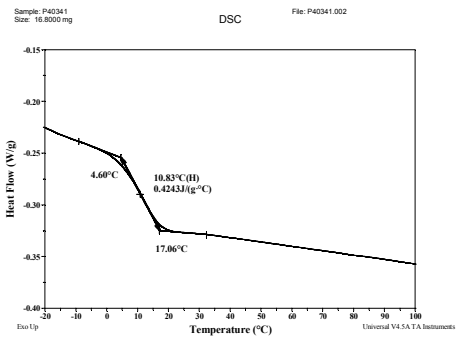
Mn x 10^3 PMMA-co-PnBuMA	PDI
35.0	1.5
MMA:nBuMA molar ratio	51:49
Tg oC	10.5 ^{0}C
Iso contents	>92%

Synthesis Procedure:
Random Copolymer Poly (methyl methacrylate-co-n-buthyl methacrylate) is prepared by anionic polymerization

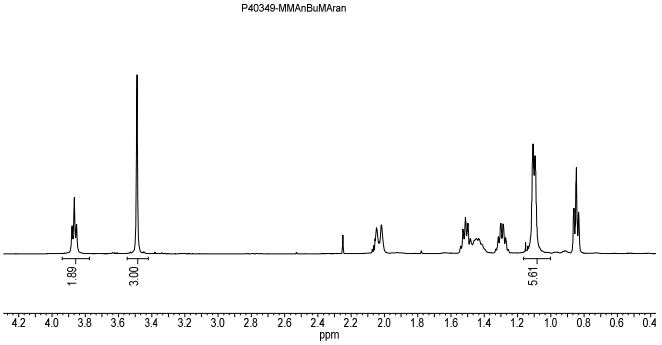
Characterization:
The product was characterized by size exclusion chromatography (SEC) and 1H NMR.

Thermal analysis
Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10^{o}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:



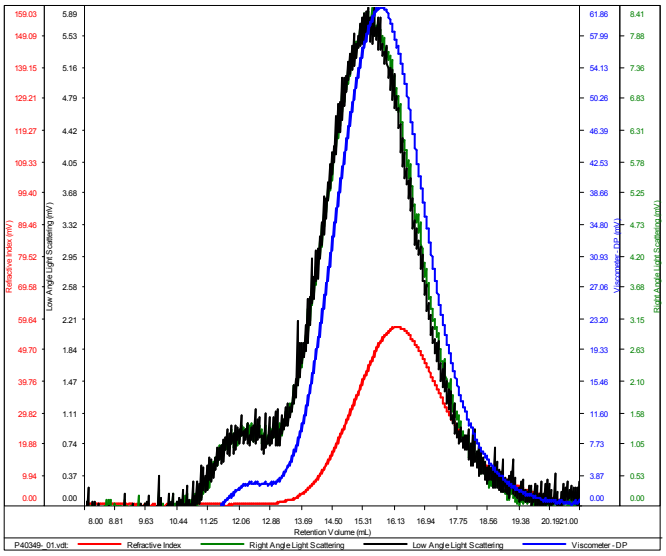
^{1}H-NMR Spectrum of the random Copolymer:



SEC of the random Copolymer:

P40349-MMAnBUMAran

Conc (mg/mL)	15.4919
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
P40349-_01.vdt	34,680	53,286	41,814	1.537	0.1266