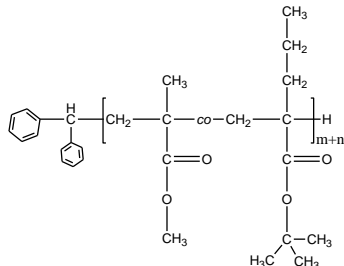


Sample Name:

Random Copolymer Poly(methyl methacrylate-co-t-butyl 2-Propyl acrylate)

Sample #: **P8297-MMAPrtBuAran**

Structure:



Composition:

PMMA : 90 mole%

Mn x 10 ³ PMMA-co-PrtBA	PDI
6.0	1.58
Glass transition temperature, T _g	93 °C

Synthesis Procedure:

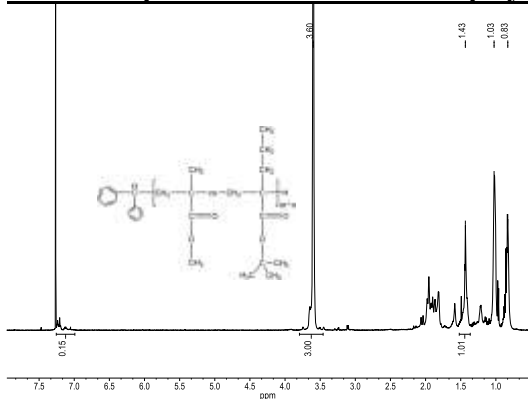
Random Copolymer Poly(methyl methacrylate-co- t-butyl 2-Propyl acrylate) is prepared by anionic polymerization

Characterization:

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

Thermal analysis was performed on TA Instruments Q100 differential scanning calorimeter (DSC) under a nitrogen atmosphere. The glass transition temperature (T_g) of the polymer was measured at a scan rate of 10°C/min shortly after creating thermal history of the sample.

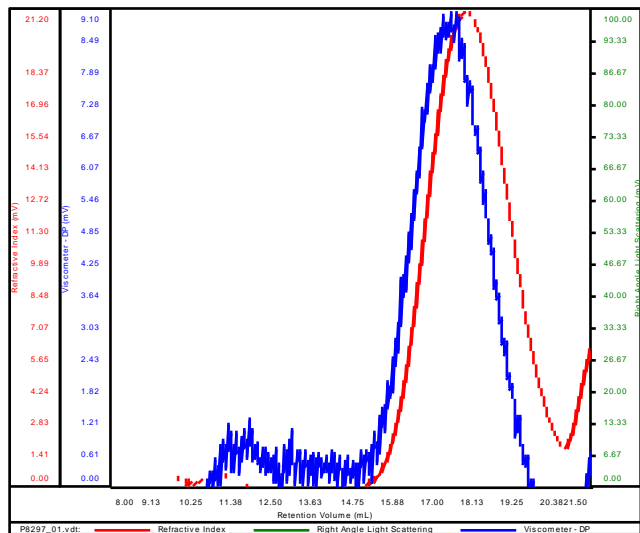
¹H-NMR Spectrum of the random copolymer:



SEC of the random copolymer:

P8297-MMAAtBuAran

Conc	6.3987
dn/dc	0.0650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS80k-May2017-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P8297_01.vdt	5,915	9,372	9,282	1.584	0.0373

DSC thermogram of the polymer (2nd heating scan, 10°C/min):

