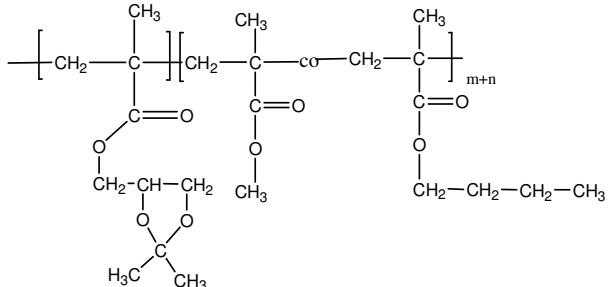


Sample Name:

Poly(Solketal methacrylate-b-Methylmethacrylate – co-n-butyl methacrylate) random block copolymer

Sample #: **P10529-SolketalMA-MMAnBuMAran**

Structure:



Composition:

Mn × 10 ³	PDI
Solketal MA-b- MMAnBuMAran	
5.0-b-15.0	1.30

MMA:nBuMA	68:32 ratio
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Synthesis Procedure:

By GTP process: Here MMAnBuMA polymerize first then added solketal MA monomer.

Characterization:

Block copolymer PDI is determined by SEC. chemical compositions by ¹H NMR.

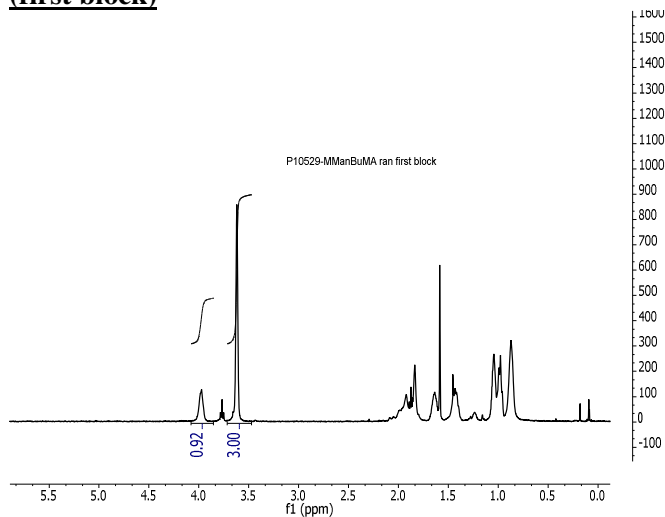
Thermal analysis:

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).

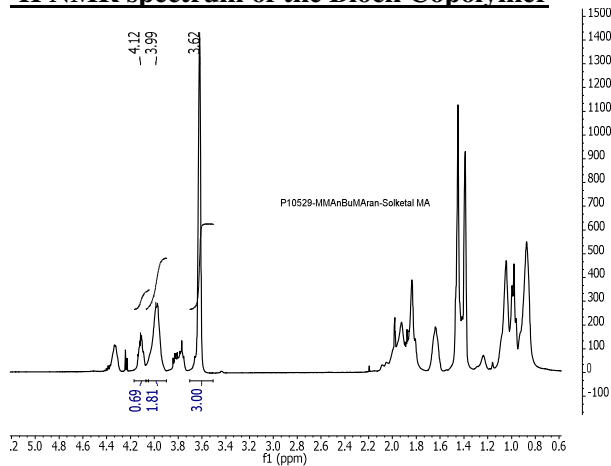
Solubility:

Polymer is soluble in DMF, THF.

¹H NMR spectrum of the block MMAnBuMAran (first block)

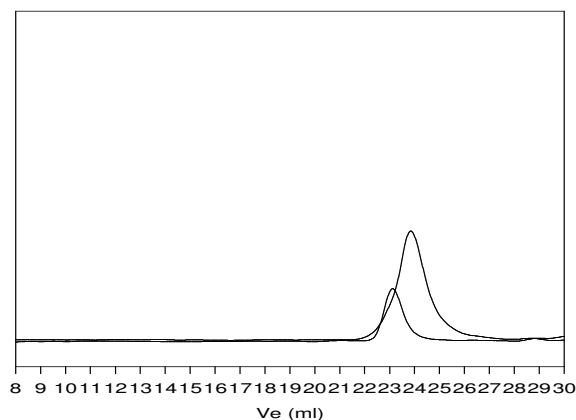


¹H NMR spectrum of the Block Copolymer



SEC elugram of the block copolymer:

P10529-MMA nBuMAran-b-SolketalMA



Size exclusion chromatography of
1. MMAnBuMAran: Mn 15,000 Mw/Mn 1.10
MMAnBuMAran -b-SolketalMA Mn 15000-b-5000 Mw/Mn: 1.30
Elution of the diblock copolymer retarded may be due to adsorption on the columns

DSC thermogram of the block copolymer:

