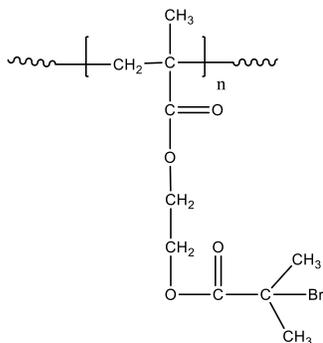


Sample Name:

Poly(2-[2-bromoisobutyryloxy]ethyl methacrylate)

Sample #: **P13092-BrIEMA**

Structure:



Composition:

$M_n \times 10^3$ BrIEMA	PDI
27.5	1.37

Synthesis Procedure:

Poly(2-bromoisobutyryl ethylmethacrylate) is synthesized by living anionic polymerization.

Characterization:

The molecular weight and polydispersity of polymer was determined by SEC equipped with refractive and light scattering detectors using DMF as eluent in the presence of LiBr (0.023M).

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).

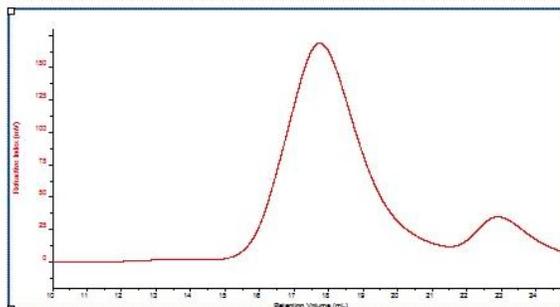
Solubility:

Poly(2-(bromoisobutyryl)ethylmethacrylate) is soluble in THF, DMF and CHCl₃. It precipitates from methanol/water.

SEC of the Polymer:

P13092

dn/dc	0.0650
Flow	0.7000
Solvent	DMF with LiBr
Method	PSS column-PMMA60K-Jan3-2019-0002.vcm



Sample	Mn	Mw	Mz	IV	Mw/Mn
P13092 1 201	27,680	37,885	131,026	0.0703	1.369