

Product Profile

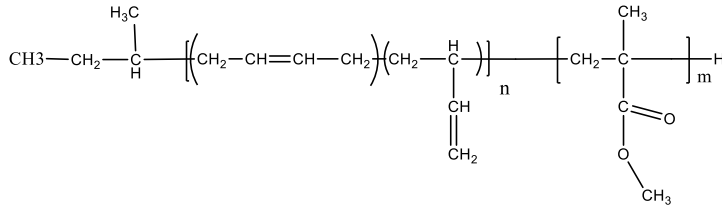
Identification

Product Name: Poly(butadiene -b-methyl methacrylate)

Polybutadiene rich in 1,2 microstructure (>85%)

Product Lot Number: P44523-BdMMA

Product Chemical Architecture:



Composition:

Mn (g/mole)	150,000-b-507,000
Bd-b-MMA	
Mw/Mn	1.22
dn/dc (mL/g)	0.105-to 0.120 depending on composition of the block copolymer

Method of Synthesis

The polymer is synthesized by anionic polymerization Sec. Butyllithium as initiator.

Solubility in different solvents

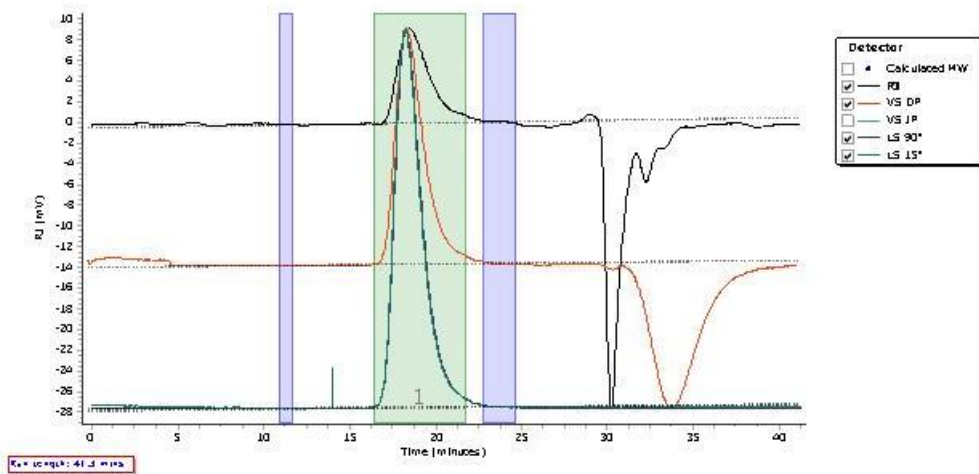
THF	√	DMF	X
Alcohol	X	CHCl ₃	√
Toluene	Yes depends on composition	DMSO	X

Validation of Architecture

A. Gel Permeation Chromatography (GPC), SEC- Profile:

Chromatogram Plot

P44523-BdMMA



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	901269	657965	805115	931230	1035604	918019	1.224

B. NMR (HNMR) of polymer

