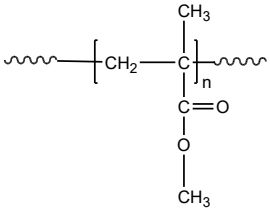
Product Profile

Identification

Product Name: Poly(methyl methacrylate) ***Atactic rich***

Product Lot Number: P45883-PMMA

Product Chemical Architecture:



Composition:

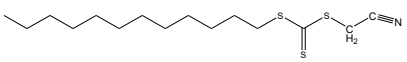
Mn (g/mole)	**245,000**
Mw (g/mole)	**438,000**
Mw/Mn	**1.8**
dn/dc (mL/g)	**0.084ml/g**
Syndio : Hetero : Iso	**57:27:16**
T_g	**104°C**

Method of Synthesis By RAFT process to obtain rich atactic polymer

RAFT reagent. Cyanomethyl dodecyl trithiocarbonate Sample # **RAFT-TSC-2**

Lot# **P16365 CAS Number:** 796045-97-1

Structure:



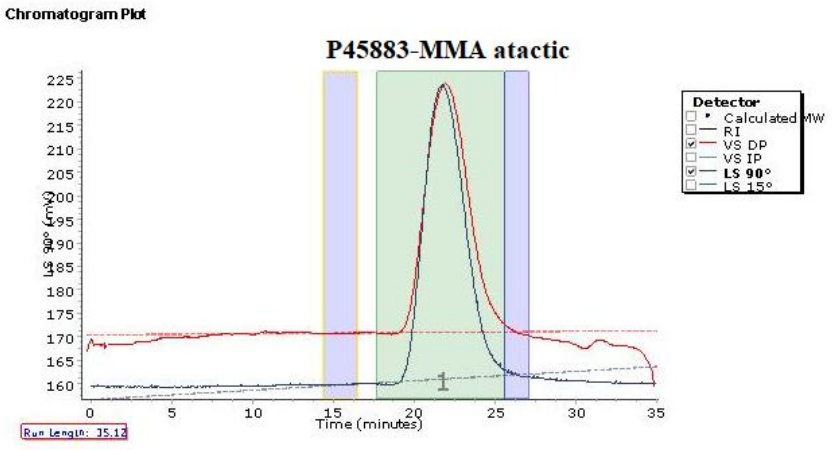
Solubility in different solvents

THF	√		
CHCl3	√	DMF	√
Toluene-Hot	√		

Purification of Polymer : By Soxhlet to remove unreacted monomer and trace amount of unreacted

Validation of Architecture:

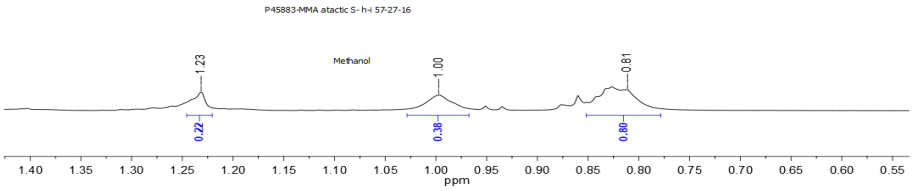
A. Gel Permeation Chromatography (GPC), SEC- Profile



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	336729	245489	437967	704593	977375	677996	1.784

B. NMR (^{H}NMR) of polymer:



C. Thermal analysis profile of polymer

