

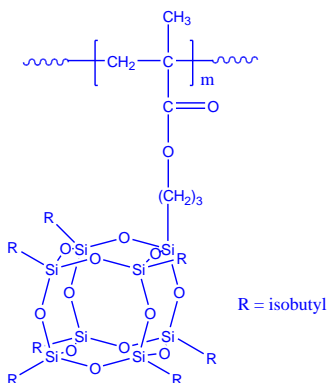
# Product Profile

## Identification

**Product Name:** Poly isobutyl Propyl POSS Methacrylate

**Product Lot Number:** P45176-POSS-IBPrMA

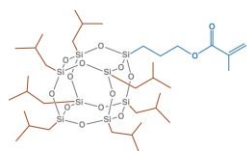
**Product Chemical Architecture:**



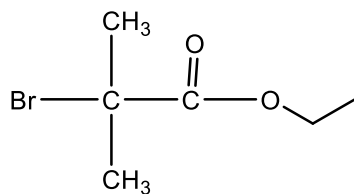
## Composition:

Mn x 10 <sup>3</sup>	Mw/Mn (PDI)
26.0	1.27

**Method of Synthesis :** By controlled radical process: Using Methacrylpropylisobutyl POSS monomer.



ATRP initiator:



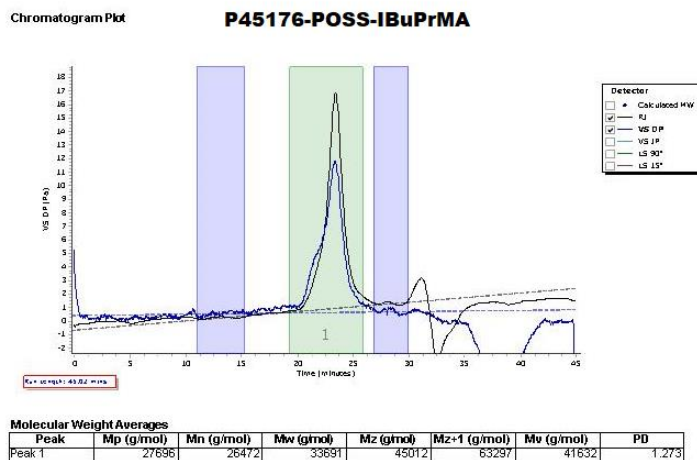
## Solubility in different solvents:

THF	√
CHCl <sub>3</sub>	√
Toluene-Hot	√

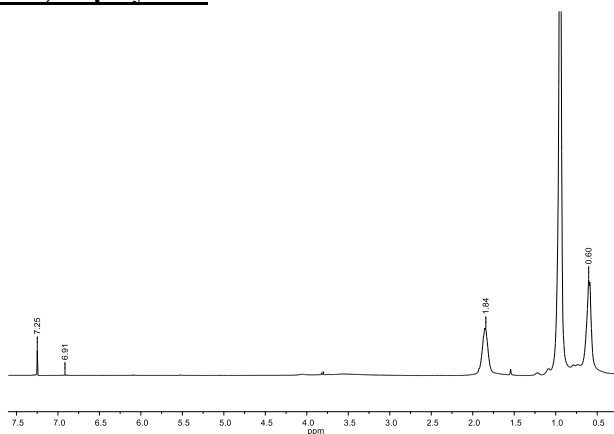
**Purification of Polymer:** Soxhlet to remove unreacted monomer.

## Validation of Architecture:

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



### B. NMR (HNMR) of polymer:



### C. Thermal analysis profile of polymer

