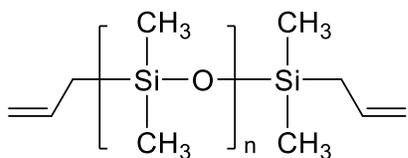


Product name:

Poly(dimethylsiloxane), α,ω -bis(allyl)-terminated

Product # **P5022-DMS2Allyl**

Structure:

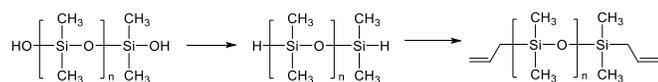


Composition:

$M_n \times 10^3$ (g/mol)	M_w/M_n
3.6	1.33

Synthesis procedure:

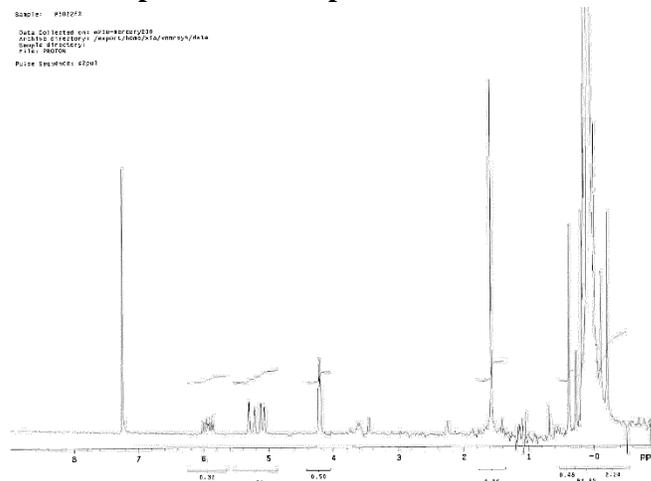
Allyl functionality was introduced by successive silanation of silanol-terminated PDMS by chlorodimethylsilane, followed by reaction with allyl alcohol in presence of catalyst. The scheme of reaction is presented below:



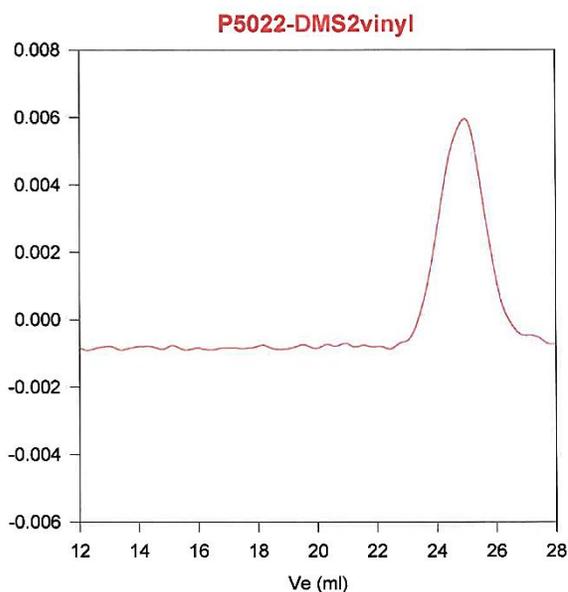
Characterization:

The molecular weight and polydispersity index of the product were determined by size exclusion chromatography (SEC). The functionalization of PDMS was confirmed by ^1H NMR spectroscopy.

^1H NMR spectrum of the product in chloroform-d:



SEC of the polymer in THF:



Size exclusion chromatography of α,ω -diallyl terminated polydimethylsiloxane:

$M_n=3,600$, $M_w=4,800$, $PI=1.33$