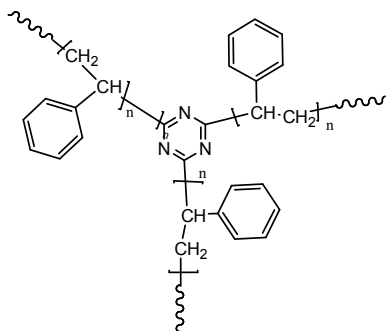


Sample Name: **P1792-3S**
Three arm Poly styrene

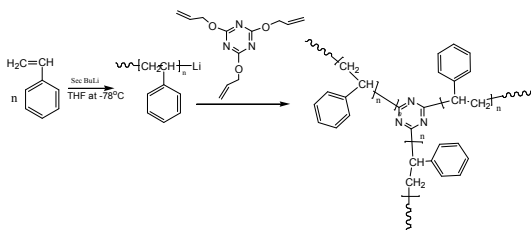


Sample #: **P332-8S**

Mn x 10 ³ (total)	PDI
330.0	1.07
(Mn of each arm:109.8)	

Synthesis Procedure:

Three arm-polymer was prepared by anionic living polymerization of styrene in non-polar solvent, and then the star polymer was obtained by coupling reaction with 2,4,6-trialloxy-1,3,5-triazine (TT). The scheme of the reaction is illustrated below:

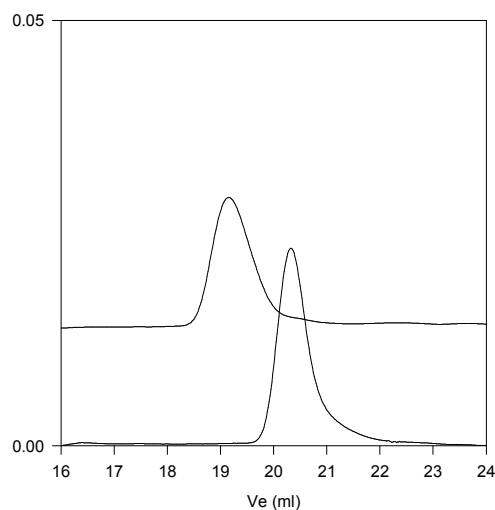


Scheme 1.

Characterization:

Molecular Weight: Size exclusion chromatography (SEC): Varian liquid chromatograph equipped with UV and refractive detector. SEC columns from Supelco were used with THF as the eluent. The columns were calibrated with monodisperse polystyrene. The molecular weights and the polydispersity indice of the side-arm were calculated. The absolute molecular weight of the star-like polymer was determined by light scattering detector.

P1792-3S



Size exclusion chromatography:

— Polystyrene before linkage, $M_n=109800$, $M_w=120500$, $PI=1.07$
 — 3-arm polystyrene,

SEC of the Polymer: