

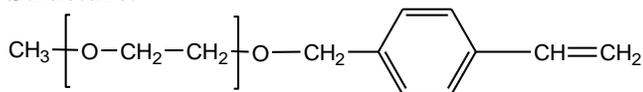
Sample Name:

**Styrene Terminated Poly(ethylene glycol)**

Sample #: **Styreomer-500**

**Lot# P42912**

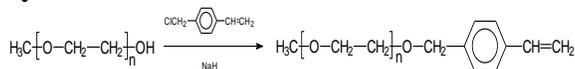
**Structure:**



**Composition:**

$M_n \times 10^3$	PDI
0.65	1.10

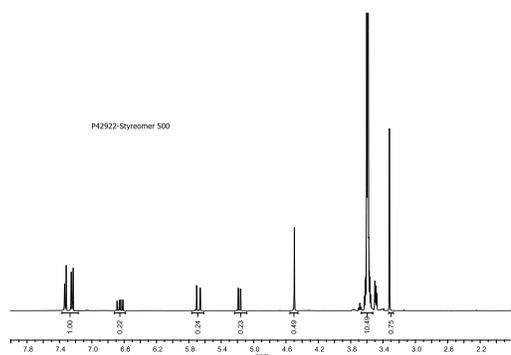
**Synthesis Procedure:**



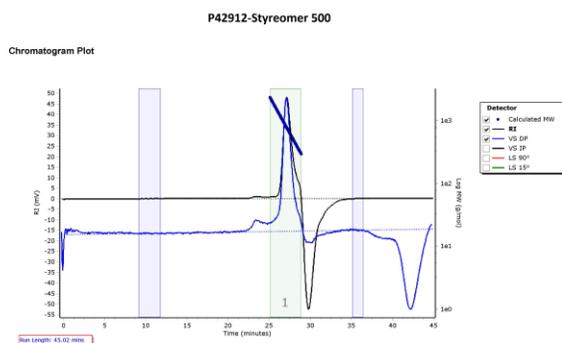
**Characterization:**

The product was characterized by size exclusion chromatography (SEC) and <sup>1</sup>H NMR data analysis.

**<sup>1</sup>H-NMR spectrum of the sample:**



**SEC elugram of Sample:**



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	779	657	739	820	919	780	1.109

**Thermal analysis of the sample:**

Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T<sub>g</sub>).

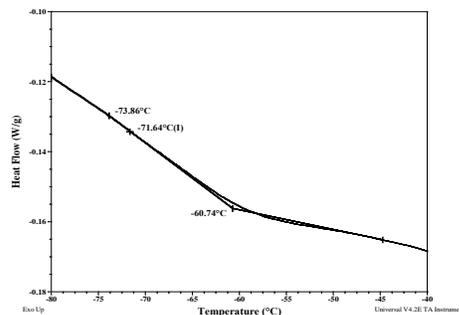
**Melting and crystallization curve for the sample:**

The melting temperature (T<sub>m</sub>) was taken as the maximum of the endothermic peak where as the crystallization temperature (T<sub>c</sub>) was considered as the minimum of the exothermic peak.

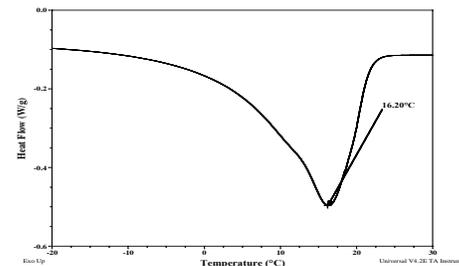
**Thermal analysis results at a glance:**

T <sub>m</sub> (°C)	T <sub>c</sub> (°C)	T <sub>g</sub> (°C)
16	09	-72

**Thermogram of EO:**



**Melting curve for EO:**



**Crystallization curve for the sample:**

