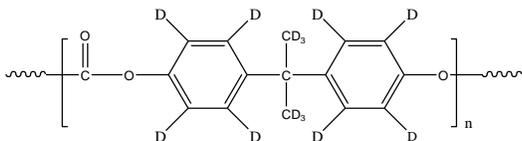


**Sample Name: Deuterated Polycarbonate (d14)
(Bisphenol A Based)**

Sample #: P41772D-d14PC

Chemical Structure:



Composition:

Mw x 10 ³	Mn x 10 ³	PDI
10.0	2.0	4.6

Purification of the Polymer:

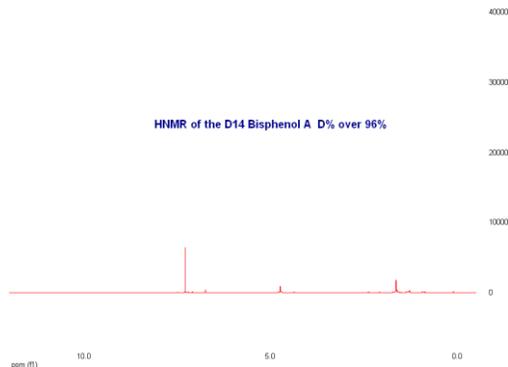
Purification of the obtained polymer was carried out rigorously as follows to ensure the removal of the catalyst side product (NaOH and phosgene byproducts):

1. Dissolved the polymer in Benzene and wash with water.
2. Polymer solution in benzene was dried over anhydrous sodium sulfate.
3. Solution filtered and then passed through a column packed with basic Al₂O₃. Solution was filtered and then concentrated on rotavaporator.

Polymer solution freeze dried from Benzene and dried at 40 °C for 24h.

D14 Bisphenol monomer was characterized by Mass spectroscopy and by HNMR

H NMR spectrum of D14 Bisphenol A monomer:



Characterization:

The product was characterized by size exclusion chromatography (SEC).

Solubility:

Polymer is soluble in CHCl₃, Benzene and THF.

SEC profile of the product:

