

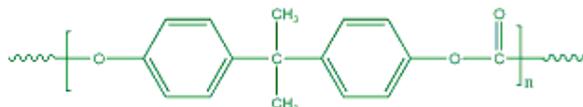
# Product Profile

## Identification

**Product Name:** Poly Carbonate (Bisphenol-A carbonate)

**Product Lot Number:** P44604D-PC

**Product Chemical Architecture:**



## Composition:

$M_n \times 10^3$	Mw/Mn (PDI)	dn/dc (mL/g) in THF at 30 °C
5.0	1.5	0.182

## Method of Synthesis

By condensation polymerization

## Solubility in different solvents

THF	√	DMF	√
CHCl <sub>3</sub>	√	Isopropapanol	X
DCM	√	Hexane	X

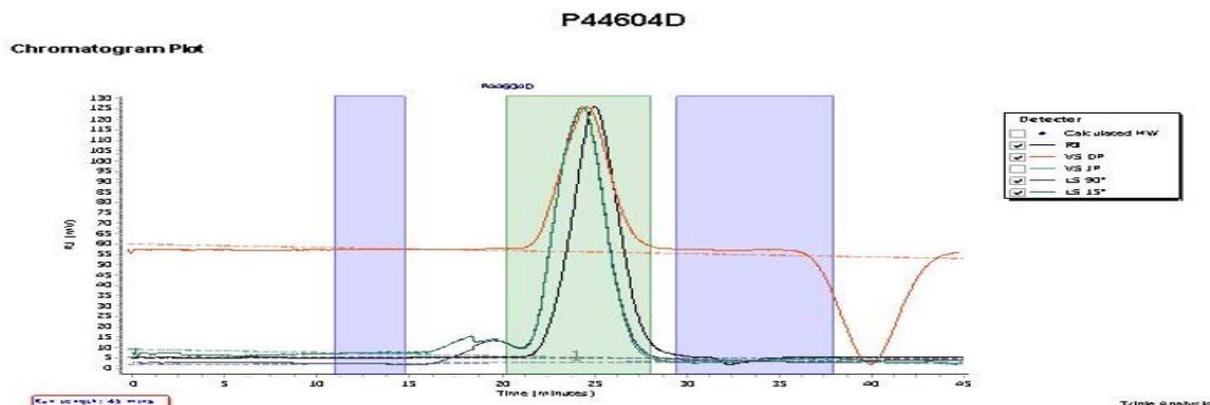
## Purification of Polymer

By column chromatography

## Validation of Architecture:

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

Molecular weights were determined by Agilent Technologies 1260 Infinity II GPC/SEC System equipped with Triple detector (RI, Viscometer, RALS 90° and LS 15°) and three columns (PLgel, 7.5x300 mm, 5 $\mu$ m-10 $\mu$ m, 10<sup>5</sup>-10<sup>6</sup>Å). THF (stabilized BHT) with 1%(v/v%) TEA was the eluent. The flow rate was 1.0 ml/min.



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	6239	5028	7588	11768	18828	10697	1.508