

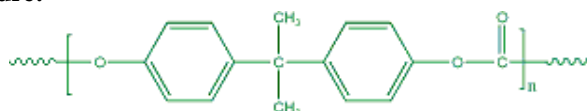
# Product Profile

## Identification

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

**Product Lot Number:** P44604B-PC

**Product Chemical Architecture:**



**Composition:**

Mn x 10 <sup>3</sup>	Mw/Mn (PDI)	dn/dc (mL/g) in THF at 30 °C
13.0	1.72	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, 5µm-10µm, 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.

