

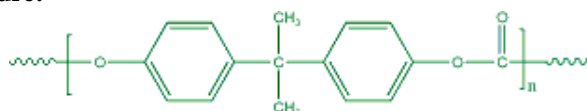
Product Profile

Identification

Product Name: Poly Carbonate (Bisphenol-A carbonate)

Product Lot Number: P44604E-PC

Product Chemical Architecture:



Composition:

Mn x 10 ³	Mw/Mn (PDI)	dn/dc (mL/g) in THF at 30 °C
6.0	1.37	0.182

Method of Synthesis

By condensation polymerization

Solubility in different solvents

THF	√	DMF	√
CHCl ₃	√	Isopropapanol	X
DCM	√	Hexane	X

Purification of Polymer

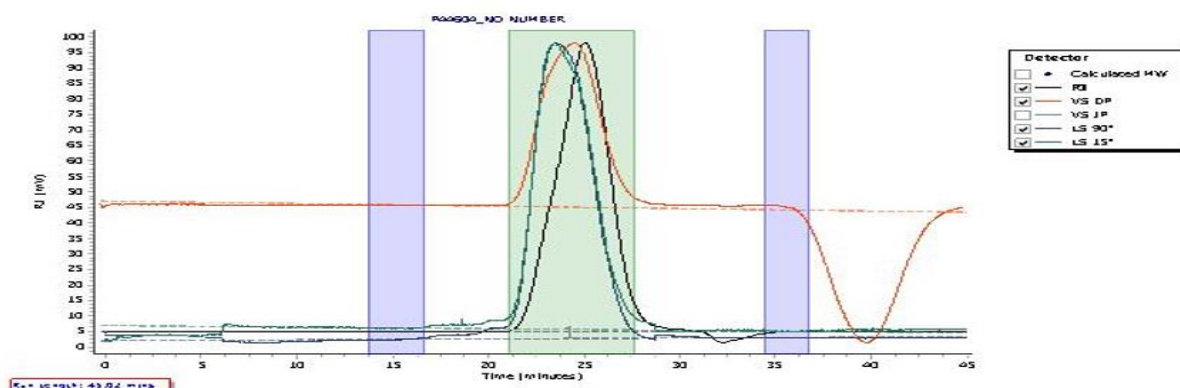
By column chromatography

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, 10⁵-10⁶Å). THF (stabilized BHT) with 1%(v/v%) TEA was the eluent. The flow rate was 1.0 ml/min.

Chromatogram Plot



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	7101	6661	9106	12506	16414	11933	1.367