

Gel Permeation Chromatograph (GPC)



Make	Model
Perkin Elmer	Series 200

Brief Description

- ❖ Gel Permeation Chromatography is the most common used technique to find out the molecular weight distribution in polymers, resins, oils, oligomers, organic compounds.
- ❖ Measuring range may vary from very low to very high molecular weights.
- ❖ The typical GPC System consists of injector, column, Refractive Index detector
- ❖ This system has the software for characterization techniques to find Number average molecular weight, Weight average molecular weight, Z average M_z , Z+1 average, n-1 average molecular weight, Viscosity average molecular weight, and Polydispersity.

Applications:

- ❖ Analysis of Polymers like Polyethylenes, Polypropelenes, LDPP, HDPP, Polystyrenes, Polyurathene, Polyether Sulphone, Epoxy Resins, Silicone Fluids, PVC, Light Mineral oil, Paraffin wax, Prepolymers, Polyethylene Glycols etc.