Polymer Analysis



DJK provides analysis and measurement services of polymeric materials such as resin materials, composites, rubbers, and elastomers.

<DJK Characteristics>

- 1 Propose an efficient analysis menu specializing in polymer materials
- 2 Enhancement of thermal characteristics and chromatographic analysis functions
- 3 Using the latest precision-controlled measuring instruments and analyzers

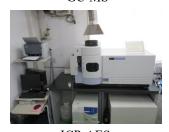
<Function of DJK>

- ① We are experienced in molecular weight measurement by GPC analysis. And we provides highly reproducible analysis results.
- 2 We are able to measure rheology such as dynamic viscoelasticity, molding fluidity, PVT, melt viscosity, and tension.
- 3 We are able to measure the thermal characteristics such as glass transition temperature, crystallization temperature, melting point, thermal conductivity, and specific heat.
- 4 One-Stop operation is performed from sample preparation to measurement.
- (5) We propose analytical methods that meet the objectives from the customer's perspective.

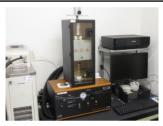
Molecular weight measurement and composition analysis	Thermal analysis and thermal characteristics	Viscoelastic/melt solution characteristics
• GPC analysis and solution viscosity • End group/functional group analysis • Elemental analysis • TDS outgas analysis • Pyrolysis GC-MS spectrometry	DSC analysis (Tg, Tc, Tm, specific heat) TG/DTA spectrometry (decomposition, vaporization) Thermomechanical analysis (thermal expansion, softening) Thermal conductivity Softening and embrittlement temperatures	Dynamic viscoelasticity (DMA) Dynamic shear viscoelasticity (rheometer) Melt tension (capilograph) Solution, melt viscosity, and MFR (MVR) PVT measurement



GC-MS



ICP-AES



Thermal conductivity



Load deflection temperature and Vicat



Capilograph



Rotating rheometer