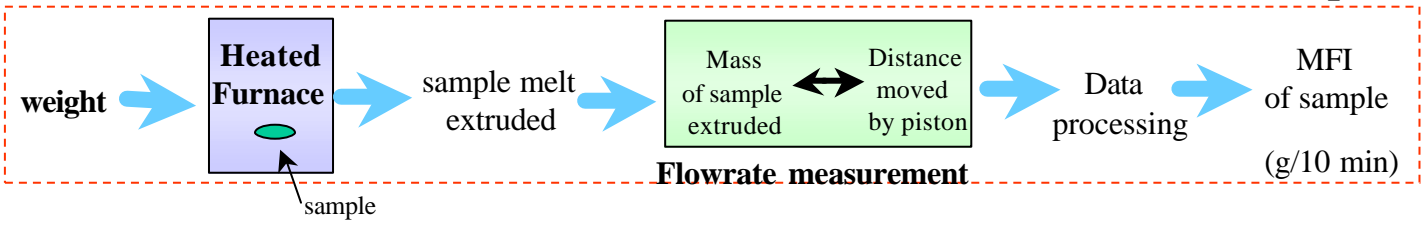
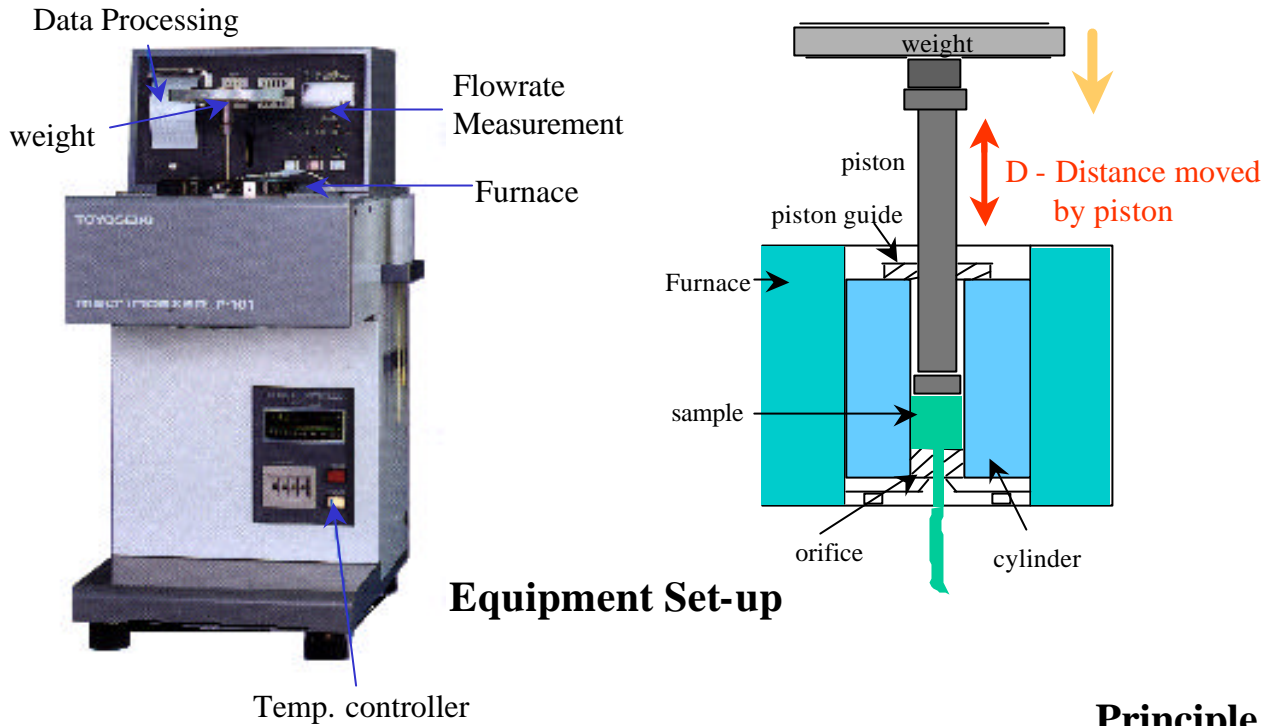


Melt Flow Indexer - Plastics Materials

● Principle ~ Setup



● Equipment capability

Information	Sample Type	Temp. Range	Test conformation
Melt Flow Index of Plastics Materials	Solid resins [Thermoplastics]	RT + 30 °C ~ 350 °C	ASTM - D 1238 JIS - K2710

● Analysing example ~ Measure MFI of Polyethylene resins (JIS - K2710)

<Test conditions>

Test Temperature : 190 °C
 Test Load (weight) : 0.325 kgf
 Material Extrusion Time(T): 30 seconds
 Density of sample (d): 0.759 g/cm³

<Test result>

Average mass of extruded material : M
 Distance moved by piston : D
 Inner area of cylinder : A
MFI of PE : 1.58 g/10 min

$$\text{MFI of PE} : M / T \quad \text{or} \quad \text{MFI of PE} : A \times D \times d / T$$

[express value in g/10 min]

High MFI of material → Low molecular weight → Low melt viscosity