Melt Flow Quick Index (INSTRON, Singapore)

The basic principle is that a thermoplastic sample (originally in the shape of granules, powder or flakes) is made fluid by heating and forced to flow out of a cylinder through a capillary die. The extruding piston is loaded with dead weights, normally up to 21.6 kg. MFR (and MVR) are obtained under standard conditions of temperature and applied load, defined for each type of material, and normally using a fixed type of die (inner diameter 2.095 mm, length 8 mm). The result must always specify the test conditions because it's strongly dependent on those.

Technical Characteristics

- simple and rapid determination of the flow index of thermoplastic materials
- weights: 1,2; 2,16; 3,8; 5 şi 10 kg
- Temperature range: (30÷400) °C