The Melt Flow Indexer is a dead-weight extrusion plastometer. It consists of a thermostatically controlled melting chamber (the barrel) in which the polymer under test is heated and from which it is extruded through a standard die under standard conditions of load, which is, of course, made up of the combined weights of the extrusion piston and the loose weight both of which are carefully calibrated to well within the most stringent limits.

## Applications:

\author{

- Plastics
}


## Features:

- Barrel: Precision ground and honed.

Manufactured from high grade tool steel for longer life.
50.8 mm outside diameter 9.55 mm inside diameter 162 mm long

- Temperature: The temperature of the barrel is controlled by the Precision Digital Temperature Controller.


# IDM 

 instrumentsTemperature Range: $100^{\circ}-300^{\circ} \mathrm{C}, \pm 0.2^{\circ} \mathrm{C}$. $100^{\circ}-400^{\circ} \mathrm{C}, \pm 0.2^{\circ} \mathrm{C}$.

## Optional:

- Die: Tungsten Carbide:

8 mm long
9.5504 mm overall diameter
2.0955 mm internal diameter

The alternative Standard die in BS 2782 method 1050 with a bore diameter of 1.181 mm is also available on request.

## - Piston:

Diameter: 9.47 mm
Weight - 100 gm .

## Benefits:

- Easy to use
- Fast results
- Accurate

Standards:

- BS2782
- ASTM D1238: Procedure A
- ISO 1133

Piston:
Diameter: 9.47 mm
Weight - 100 gm .

## - Piston Weights:

4.9 Kg weight (1)
2.06 Kg weight (1)

- Sample Cut Off Knife (1)
- Die Remover (1)
- Die Cleaner (1)
- Cleaning Tool (1)
- Filler Tool (1)
- Level (1)


## Options:

- Calibration Certificate
- Spare Die


## Melt Flow Indexer

## Model: M0004

## Connections:

Electrical: 220/240 VAC @ 50 HZ or 110 VAC @ 60 HZ (please specify when ordering)

Dimensions:

- H: 480mm
-W: 430mm
- D: 270mm

Weight: 27 kg

## Procedural Conditions:

| Material | Condition |  |
| :---: | :---: | :---: |
| Acetals (copolymerand homoploymer) | 190/2.16 | 190/1.05 |
| Acrylics | 230/1.2 | 230/3.8 |
| Acrylonitrile-butadiene-styrene | 200/5.0 | 230/3.8 |
|  | 220/10 |  |
| Acrylonitrile/butadiene/styrene/polycarbonate | 230/3.8 | 250/1.2 |
| blends | 265/3.8 | 265/5.0 |
| Cellulose esters | 190/0.325 | 190/2.16 |
|  | 190/21.60 | 210/2.16 |
| Ethylene-chlorotrifluoroethylene copolymer | 271.5/2.16 |  |
| Ethylene-tetrafluoroethylene copolymer | 297/5.0 |  |
| Nylon | 275/0.325 | 235/1.0 |
|  | 235/2.16 | 235/5.0 |
|  | 275/5.0 |  |
| Perfluoro (ethylene-propylene) copolymer | 372/2.16 |  |
| Perfluoroalkoxyalkane | 372/5.0 |  |
| Polycaprolactone | 125/2.16 | 80/2.16 |
| Polychlorotrifluorethylene | 265/12.5 |  |
| Polyethylene | 125/0.325 | 125/2.16 |
|  | 250/1.2 |  |
|  | 190/0.325 | 190/2.16 |
|  | 190/21.60 | 190/10 |
|  | 310/12.5 |  |
| Polycarbonate | 300/1.2 |  |
| Polymonochlorotrifluoroethylene | 265/21.6 |  |
|  | 265/31.6 |  |
| Polypropylene | 230/2.16 |  |
| Polystyrene | 200/5.0 | 230/1.2 |
|  | 230/3.8 | 190/5.0 |
| Polyterephthalate | 250/2.16 | 210/2.16 |
|  | 285/2.16 |  |
| Poly (vinyl acetal) | 150/21.6 |  |
| Poly (vinylidene fluoride) | 230/21.6 |  |
|  | 230/5.0 |  |
| Poly (phenylene sulfide) | 315/5.0 |  |
| Styrene acrylonitrile | 220/10 | 230/10 |
|  | 230/3.8 |  |
| Styrenic Thermoplastic Elastomer | 190/2.16 | 200/5.0 |
| Thermoplastic Elastomer-Ether-Ester | 190/2.16 | 220/2.16 |
|  | 230/2.16 | 240/2.16 |
|  |  | 250/2.16 |
| Thermoplasyic Elastomers (TEO) | 230/2.16 |  |
| Vinylidene fluoride copolymers | 230/21.6 |  |
|  | 230/5.0 |  |

These conditions have been found satisfactory for the materials listed

