

The 6MPCA is the most advanced model offered within the Ray-Ran Range of Melt Flow Indexers, using its on board advanced microprocessor technology. The liquid crystal display (LCD) provides simple on-screen instructions reducing user error and the test parameters are easily entered via the alpha numeric keypad. The apparatus can accurately determine results for MFR, MVR and Density at test temperature. To conduct a test molten polymer is extruded through a closely controlled orifice (die) from the apparatus using set test parameters of temperature and pressure produced by a dead weight system. Rotary encoder technology accurately determines piston displacement as the polymer is extruded and automatically starts the test when the piston is in the zone for testing. Simple parameters are entered such as usernames, material reference numbers and batch numbers which are stored for future recall and results presentation. The multi slicing feature of the 6MPCA makes flow curve analysis instantly recognizable when the results are downloaded to the supplied Techni-Test Software. If a materials density at test

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#### **6MPCA Advanced Melt Flow System**

temperature is not known then a simple density test can be conducted by extruding molten polymer over a selected test distance, weighing the cut off and inputting the weight into the microprocessor. The density result will be automatically calculated and stored for you to conduct your MFI test. After each test the results are displayed on the LCD giving the MFI, Shear Stress, Shear Rate, Viscosity and the MVR.



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# RDM

#### Testing Features MFI:

Operator list Material reference list Batch reference with data input Variable test temperature input Variable test weight input Variable pre-heat input Material density data input Variable test distance Multi slicing feature High and low limit parameter setting

### **Density:**

Operator list Material reference list Batch reference with data input Variable test temperature input Variable test weight input Variable pre-heat input Material density data input Variable test distance Numeric input of material weight in grams Automatic calculation of Density at test temperature

### Weight and Dimentions

Weight: 42 kg Dimensions: 570x580x700 mm (WxDxH) Power: 110-240VAC, 50-60hz Display: 160 x 128 dots graphic LCD module with alphanumeric keypad

### **Optional Ancillaries**

Weight Loader Full Range of Test Weights Available from 1Kg to 21.6Kg

## **Technical Specifications**

Microprocessor Temperature Control

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**Dual Zone Heating** 

Digital encoder accurate to +/-0.02mm

Temperature Accurate to +/- 0.1°C

Temperature Range 0 to 400°C

Temperature Resolution +/- 0.01°C

Multi slicing feature for accurate flow curve analysis

Test Die, Piston & 2.16kg Test Weight supplied as standard

Filling and cleaning tools included as standard

Conforms to method A of the ASTM standard

Techni-test software included as standard

### **Electrical characteristics**

110v@60hz and 220v@50hz – fuse rating: 10amp



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