

RDM

TEST EQUIPMENT



6MPCA Advanced Melt Flow System

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

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.



RDM Test Equipment Ltd
Unit 39 Golds Nurseries Bus. Park
Jenkins Drive, ELSENHAM
Hertfordshire, CM22 6JX, UK

Tel: +44(0)1279 817171
Fax: +44(0)1279 815743
E-mail: sales@rdmtest.com
Web: www.rdmtest.com

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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 Dimensions

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

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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