Melt Flow System - Advanced

Model 46-02-01-0002

The 6MPCA is the most advanced model offered within the Ray-Ran range of melt flow indexers. The operating procedure is simple to undertake using its onboard advanced microprocessor technology. The large LCD provides onscreen instructions, reducing user error, and test parameters are easily entered via the 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 user 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 critical zone for testing.

Simple parameters are entered, such as user names, material reference numbers and batch numbers, which are stored in lists for future recall and results presentation. Other parameters, which are user defined, are multi-slicing and high/low limits. The multi-slicing feature of the unit makes flow curve analysis instantly recognizable when the results are downloaded to the supplied software. The operator inputs data for the amount of slices to be made during the setup process and the microprocessor accurately records the MFR result at each slice during the test. For quality control purposes the unit microprocessor can be set with high and low limits which are clearly defined when the results are downloaded to a PC showing the user instantly if the material is a pass or a fail.

SPECIFICATIONS

- Microprocessor temperature controller with dual zone heating
- Temperature accurate to +/- 0.1 °C, range 0 to 400°C and resolution +/- 0.01 °C
- Digital encoder accurate to +/- 0.02mm
- Multi-slicing feature for accurate flow curve analysis
- Test die, piston, 2.16kg test weight, filling and cleaning tools, and software included as standard
- Electrical characteristics: 110v@60hz and 220v@50Hz - fuse rating: 10amp
- Net weight 42kg, width 57cm, depth 58cm, height 70cm

OPTIONAL ACCESSORIES

- Weight loader
- Full range of test weights available from 1Kg to 21.5Kg

TESTING FEATURES

- MFI: Operator list, material reference list, batch ref with data input, variable test temp input, variable test weight input, variable pre-heat input, material density data input, variable test distance, multi-slicing features, high and low limit parameter setting
- Density: Operator list, material reference list, batch ref with data input, variable test temp input, variable test weight input, variable pre-heat input, variable test distance, numeric input of material weight in grams, automatic calculation of density at test temperature

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Specifications subject to change.