

LMI 5000 & 5500 SERIES COMPREHENSIVE OPERATOR TRAINING

- 1. PURPOSE:** To provide explanation and education of relevant ASTM test methods for obtaining Melt Flow Rate (MFR) Melt Volume Rate (MVR) and Melt Density (MD) of polymers, which will include comprehensive training on the set up, interface, operation, and general maintenance of the equipment.
- 2. SCOPE:** This procedure applies to all model variations in the LMI5000 and LMI5500 series, and will cover ASTM D1238 Method(s) A, A/B, B tests
- 3. APPLICATION:** All new and existing end users of this equipment.
- 4. DEFINITIONS:**
 - ASTM = American Standard of Test Methods
 - LMI= Laboratory Melt Indexer
 - MD= Melt Density
 - MFR = Melt Flow Rate
 - MVR= Melt Volume Rate
 - PP= Polypropylene
 - PPE = Personal protection equipment
 - PPT = Power point training
 - g/10min= Grams of material per 10 minutes
 - g/cc = Grams of material per cubic centimeter



CONTACT DYNISCO FOR PRICING AND SCHEDULING: 1-800-DYNISCO (396-4726)

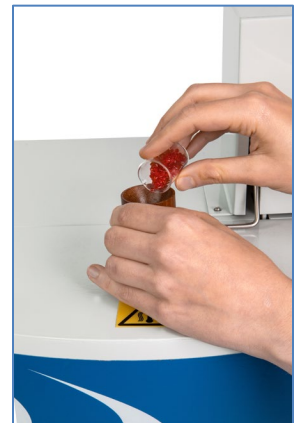
5. PROCEDURE:

- Introduction to ASTM methods, and purpose of testing polymers, explanation of test apparatus, and review table of polymer test conditions. (PPT)
- Review of cleaning and operating tools, discuss safety and PPE (Hands on training)
- Conduct actual operator interface with LMI (Set up test parameters, review software)
- Run reference material (PP) and obtain relevant test method results (Hands on training, and software interface if applicable)



6. PROCEDURE DETAILED

- A. The power point presentation will introduce the end user to the LMI, the American Standard of Test Method, for testing polymers (ASTM D1238 methods A, A/B, and B) while also providing an explanation of the different polymer testing conditions and the purpose of testing.
- B. The hands-on training will include review of cleaning and operating tools, PPE and safety practices listed in the LMI user guide and practiced in actual application. Each spare part, cleaning tool, and piece of operation equipment will be identified and discussed in order to acquaint the end user with use of these items.
- C. Actual operator interface will provide the end user the opportunity to program the test method to meet the MFR spec provided with the control resin and observe the test procedure from the first-person perspective to maximize comprehension with the routine of conducting the melt flow test. Results will be measured in g/10min and g/cc, by using sample weight and machine calculations
- D. The goal will be to build a foundation for general understanding of ASTM/ISO standard, MFR, MVR, and MD, and how to obtain these values by operating the LMI. Each end user will have the opportunity to put these key take away items to immediate use, prior to the completion of the training course.



OVERALL TIME TO ADMINISTER TRAINING WILL DEPEND ON AUDIENCE SIZE, AND EQUIPMENT AVAILABILITY (Target = 4 hours)

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