

function

The **SCITEQ MFI-450** is used to determine the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of a wide range of thermoplastic raw materials (granulate) by extruding it in a molten state through a calibrated die using a reference weight. It offers easy operation with colour touch screen control for fully automatic testing.

highlights

full touch screen

robust construction

micro-printer

high accuracy

quality product

weight loading device
(standard on model C)

version 06/2010

features

Three models are available: C, C1 and C2

The user-friendly MFI combines high accuracy and precision essential for quality control and R&D.

Complies with BS 2782 Part 7: Method 720A, ISO 1133 and ASTM 1238 Methods A and B.

Calculates melt mass-flow rate (MFR), melt volume-flow rate (MVR) and melt density/viscosity.

Touch screen with simple set-up of test and operation. Test results can be viewed and printed on included micro-printer.

Heavy-duty, robust construction which is easily cleaned.

Supplied with fully equipped weight kit up to 21,6 kg and full accessory kits.

Model 450C has a weight loading device.



SCITEQ MFI-450 - touch screen

We wish to give our partners the tools to produce to the highest standard, while helping them to produce as cost-effectively as possible with Q.C. tools throughout the factory.

construction

The MFI-450 series is a rigid constructed table apparatus using the latest touch screen controller technology with a very intuitive software. It has audible prompts at the correct time and results calculated and displayed at the end of the test. With the displacement transducer (standard on model C and C1) MVR testing can be performed. Weight loading device is standard on model C improving use-ability and ensuring weight is loaded evenly.



SCITEQ MFI-450 with touch screen controller and micro-printer.

model range: 450C (MFR, MVR and weight loading device)
 450C1 (MFR, MVR)
 450C2 (MFR)

temperature range: 120°C to 450°C (248°F to 842°F)

temperature accuracy: ±0.2°C

timing accuracy: 0.01s

displacement error: ±0.1mm (MVR)

heating rate: ≥12°C/min.

warm up time: approx. 16 minutes (190°C)

electrical supply: Single phase 230V ±10% AC 50-60Hz. 6 Amps

maximum power required: 0,65kW

international standards: BS 2782 Part 7: Method 720A, ISO 1133 and ASTM D1238 Methods A and B

corrosion resistant barrel and pistons: tungsten carbide for testing of corrosive materials such as PVC and abrasive glass filled materials

temperature measurement: PT 100 sensor

die: tungsten carbide 2.095±0.005mm

piston length: 193mm full length (effective length 175mm)

piston head length: 6.35±0.10mm

piston rod diameter: 9.475±0.015mm

cylinder diameter: 9.550±0.025mm

dimensions: 550x435x880mm (length x width x height)

net weight: 62 kg

accessories:

- 2.095 mm die
- standard piston
- circular spirit level
- charging tool
- die ejector tool
- barrel cleaning tool
- die broach
- cleaning patches
- filling funnel
- piston support sleeves
- die tweezers
- hexagonal key
- die retaining plate
- ceramic die retaining bush

Complete weight set box consisting of one of each weights:

- 0.600kg
- 0.875kg
- 0.960kg
- 1.000kg
- 1.200kg
- 1.640kg
- 2.500kg (two)
- 5.000kg (two)



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