

function

The SCITEQ MFI SNR 400 is used to determine either the melt mass-flow rate (MFR) of a wide range of thermoplastic raw materials (granulate) by extruding it in a molten state through a calibrated die using a reference weight. The instrument is user-friendly.

highlights

Easy operation

robust construction

high accuracy

Compact unit

easy operation

version 04/2010

features

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) 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.



SCITEQ MFI 400 - control panel

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 SNR 400 is a rigid constructed table apparatus using 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.



- model range:** SNR 400
- measuring method:** Melt Flow Rate
- temperature range:** 120°C to 450°C (248°F to 842°F)
- temperature accuracy:** $\pm 0.2^\circ\text{C}$
- timing accuracy:** 0.01s
- heating rate:** $\geq 12^\circ\text{C}/\text{min.}$
- warm up time:** approx. 16 minutes (190°C)
- electrical supply:** Single phase 230V $\pm 10\%$ 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 $2.095 \pm 0.005\text{mm}$
 - piston length:** 193mm full length (effective length 175mm)
 - piston head length:** $6.35 \pm 0.10\text{mm}$
 - piston rod diameter:** $9.475 \pm 0.015\text{mm}$
 - cylinder diameter:** $9.550 \pm 0.025\text{mm}$
 - display:** LCD
 - 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:
- 0.030kg
- 0.600kg
- 0.875kg
- 0.960kg
- 1.000kg
- 1.200kg
- 1.640kg
- 2.000kg (eight)



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